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# ROSS' Seeds For 1932



ROSS BROS. CO., WORCESTER, MASS.  
COMMERCIAL AND FOSTER STREETS

Argo Seed and Feed  
FPI 12-72

# ROSS BROS. COMPANY

179-181 Commercial Street

WORCESTER, MASS.

January, 1932

## Seeds and Farm Equipment Since 1843

Our Slogan:

**EVERYBODY KNOWS ROSS' SEED GROWS**

**The attention of our customers is respectfully called to the following directions, which if followed will be an aid to purchasers as well as ourselves.**

**ORDER EARLY**—We endeavor to fill all orders as soon as received, but during the rush season of April and May, delays are sometimes unavoidable. This, however, can be partly overcome if our patrons will send us their orders early.

**FREE DELIVERY**—We deliver postpaid to any Post Office in the United States, Vegetable and Flower Seeds in packets, ounces, quarter pounds and pounds, at prices quoted in this catalogue for such quantities. If larger quantities are wanted by Parcel Post, postage MUST BE SENT. See Parcel Post rates.

**GRASS AND FIELD SEEDS**—All Grass and Field Seeds, Onion Sets and Potatoes are shipped only at purchaser's expense by express or freight, as ordered. Prices quoted in this catalogue are F. O. B. Worcester. Small quantities of Grass or Field Seeds sent by Parcel Post if postage is added at parcel post rates.

**DO NOT ORDER LARGE, HEAVY LOTS OF SEEDS SENT BY EXPRESS** unless you are certain that you are willing to pay the express charges, which, even with the reduction now made on such shipments by the express companies, are much more than freight charges.

But do not order a few pounds of seeds sent by freight which could be sent as cheaply, more safely, and which would reach you much sooner if sent by express.

**NOTICE**—While it is not our custom to substitute, we feel that in the event of our being sold out of any variety it would be to the advantage of our patrons to allow us this privilege, for, if on receipt of any substitute it is not perfectly satisfactory, the same may be returned and money paid will be refunded.

**IF GOODS ARE WANTED BY PARCEL POST, POSTAGE MUST BE ADDED AS PER TABLE, EXCEPT FOR THOSE QUANTITIES OF SEEDS WE OFFER TO DELIVER FREE.**

**FOR LARGE ORDERS**, remittances should be made by Express Money Orders, P. O. Money Order, Bank Draft, or Registered Letter, all of which are inexpensive and absolutely safe.

Telegraph your order with Western Union Money Transfer and goods will be shipped same day order is received.

**PLEASE** do not send stamps unless necessary as they often reach us in an unusable condition.

**PERSONAL CHECKS.** If personal checks are used they should be certified otherwise shipment of your order may be delayed pending collection.

**NAME AND ADDRESS SHOULD ALWAYS BE GIVEN.** Frequently we receive unsigned letters. Sometimes they contain money and orders. Sometimes, too, letters are received in which the name of the town is left out and the postmark is blurred. We cannot fill orders unless we know the name and address of the buyer. The easiest way for you is to use our order sheet filling in the blanks.

**ERRORS**—We use the utmost care in filling orders, yet in the press of business, errors sometimes occur in which event we wish to be promptly notified of the fact and will make such corrections as will be satisfactory.

Most of the failures with seeds, plants and bulbs are due to causes entirely beyond our control such as unfavorable weather or soil conditions, too deep or too shallow planting, which renders it impossible for us to guarantee success, and although we take all possible care to supply only such goods as will under proper conditions, produce satisfactory results. The Ross Bros. Company gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds (bulbs or plants) it sells and will not be responsible for the crop.

Weight Lbs.	ZONES							
	Local	1st-2d	3d	4th	5th	6th	7th	8th
1..	\$0.07	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.12	\$0.13
2..	.08	.08	.10	.12	.15	.18	.22	.25
3..	.08	.09	.12	.16	.21	.26	.32	.37
4..	.09	.10	.14	.20	.27	.34	.42	.49
5..	.09	.11	.16	.24	.33	.42	.52	.61
6..	.10	.12	.18	.28	.39	.50	.62	.73
7..	.10	.13	.20	.32	.45	.58	.72	.85
8..	.11	.14	.22	.36	.51	.66	.82	.97
9..	.11	.15	.24	.40	.57	.74	.92	1.09
10..	.12	.16	.26	.44	.63	.82	1.02	1.21
11..	.12	.17	.28	.48	.69	.90	1.12	1.33
12..	.13	.18	.30	.52	.75	.98	1.22	1.45
13..	.13	.19	.32	.56	.81	1.06	1.32	1.57
14..	.14	.20	.34	.60	.87	1.14	1.42	1.69
15..	.14	.21	.36	.64	.93	1.22	1.52	1.81
16..	.15	.22	.38	.68	.99	1.30	1.62	1.93
17..	.15	.23	.40	.72	1.05	1.38	1.72	2.05
18..	.16	.24	.42	.76	1.11	1.46	1.82	2.17
19..	.16	.25	.44	.80	1.17	1.54	1.92	2.29
20..	.17	.26	.46	.84	1.23	1.62	2.02	2.41
21..	.17	.27	.48	.88	1.29	1.70	2.12	2.53
22..	.18	.28	.50	.92	1.35	1.78	2.22	2.65
23..	.18	.29	.52	.96	1.41	1.86	2.32	2.77
24..	.19	.30	.54	1.00	1.47	1.94	2.42	2.89
25..	.19	.31	.56	1.04	1.53	2.02	2.52	3.01
26..	.20	.32	.58	1.08	1.59	2.10	2.62	3.13
27..	.20	.33	.60	1.12	1.65	2.18	2.72	3.25
28..	.21	.34	.62	1.16	1.71	2.26	2.82	3.37
29..	.21	.35	.64	1.20	1.77	2.34	2.92	3.49
30..	.22	.36	.66	1.24	1.83	2.42	3.02	3.61
31..	.22	.37	.68	1.28	1.89	2.50	3.12	3.73
32..	.23	.38	.70	1.32	1.95	2.58	3.22	3.85
33..	.23	.39	.72	1.36	2.01	2.66	3.32	3.97
34..	.24	.40	.74	1.40	2.07	2.74	3.42	4.09
35..	.24	.41	.76	1.44	2.13	2.82	3.52	4.21
36..	.25	.42	.78	1.48	2.19	2.90	3.62	4.33
37..	.25	.43	.80	1.52	2.25	2.98	3.72	4.45
38..	.26	.44	.82	1.56	2.31	3.06	3.82	4.57
39..	.26	.45	.84	1.60	2.37	3.14	3.92	4.69
40..	.27	.46	.86	1.64	2.43	3.22	4.02	4.81
41..	.27	.47	.88	1.68	2.49	3.30	4.12	4.93
42..	.28	.48	.90	1.72	2.55	3.38	4.22	5.05
43..	.28	.49	.92	1.76	2.61	3.46	4.32	5.17
44..	.29	.50	.94	1.80	2.67	3.54	4.42	5.29
45..	.29	.51	.96	1.84	2.73	3.62	4.52	5.41
46..	.30	.52	.98	1.88	2.79	3.70	4.62	5.53
47..	.30	.53	1.00	1.92	2.85	3.78	4.72	5.65
48..	.31	.54	1.02	1.96	2.91	3.86	4.82	5.77
49..	.31	.55	1.04	2.00	2.97	3.94	4.92	5.89
50..	.32	.56	1.06	2.04	3.03	4.02	5.02	6.01
51..	.32	.57	1.08	2.08	3.09	4.10	5.12	6.13
52..	.33	.58	1.10	2.12	3.15	4.18	5.22	6.25
53..	.33	.59	1.12	2.16	3.21	4.26	5.32	6.37
54..	.34	.60	1.14	2.20	3.27	4.34	5.42	6.49
55..	.34	.61	1.16	2.24	3.33	4.42	5.52	6.61
56..	.35	.62	1.18	2.28	3.39	4.50	5.62	6.73
57..	.35	.63	1.20	2.32	3.45	4.58	5.72	6.85
58..	.36	.64	1.22	2.36	3.51	4.66	5.82	6.97
59..	.36	.65	1.24	2.40	3.57	4.74	5.92	7.09
60..	.37	.66	1.26	2.44	3.63	4.82	6.02	7.21
61..	.37	.67	1.28	2.48	3.69	4.90	6.12	7.33
62..	.38	.68	1.30	2.52	3.75	4.98	6.22	7.45
63..	.38	.69	1.32	2.56	3.81	5.06	6.32	7.57
64..	.39	.70	1.34	2.60	3.87	5.14	6.42	7.69
65..	.39	.71	1.36	2.64	3.93	5.22	6.52	7.81
66..	.40	.72	1.38	2.68	3.99	5.30	6.62	7.93
67..	.40	.73	1.40	2.72	4.05	5.38	6.72	8.05
68..	.41	.74	1.42	2.76	4.11	5.46	6.82	8.17
69..	.41	.75	1.44	2.80	4.17	5.54	6.92	8.29
70..	.42	.76	1.46	2.84	4.23	5.62	7.02	8.41

## ORDER SHEET

# ROSS BROS. CO.

179-181 Commercial St., WORCESTER, MASS.

Date \_\_\_\_\_ 19

Send to  $\mathcal{M}$

(Write name and address plainly)

Street (Type Name and Address plainly) **R.F.D. No.**

**Post Office** **County**

### County

R.F.D. No.

**Express or Freight Address** **State**

State

Ship by Freight..... Express..... Parcel Post..... (check which way)

### State

ROSS BROTHERS COMPANY gives no warranty, expressed or implied, as to description, quality, or condition.

## Total

Total ..... 100

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Amt. ....

No

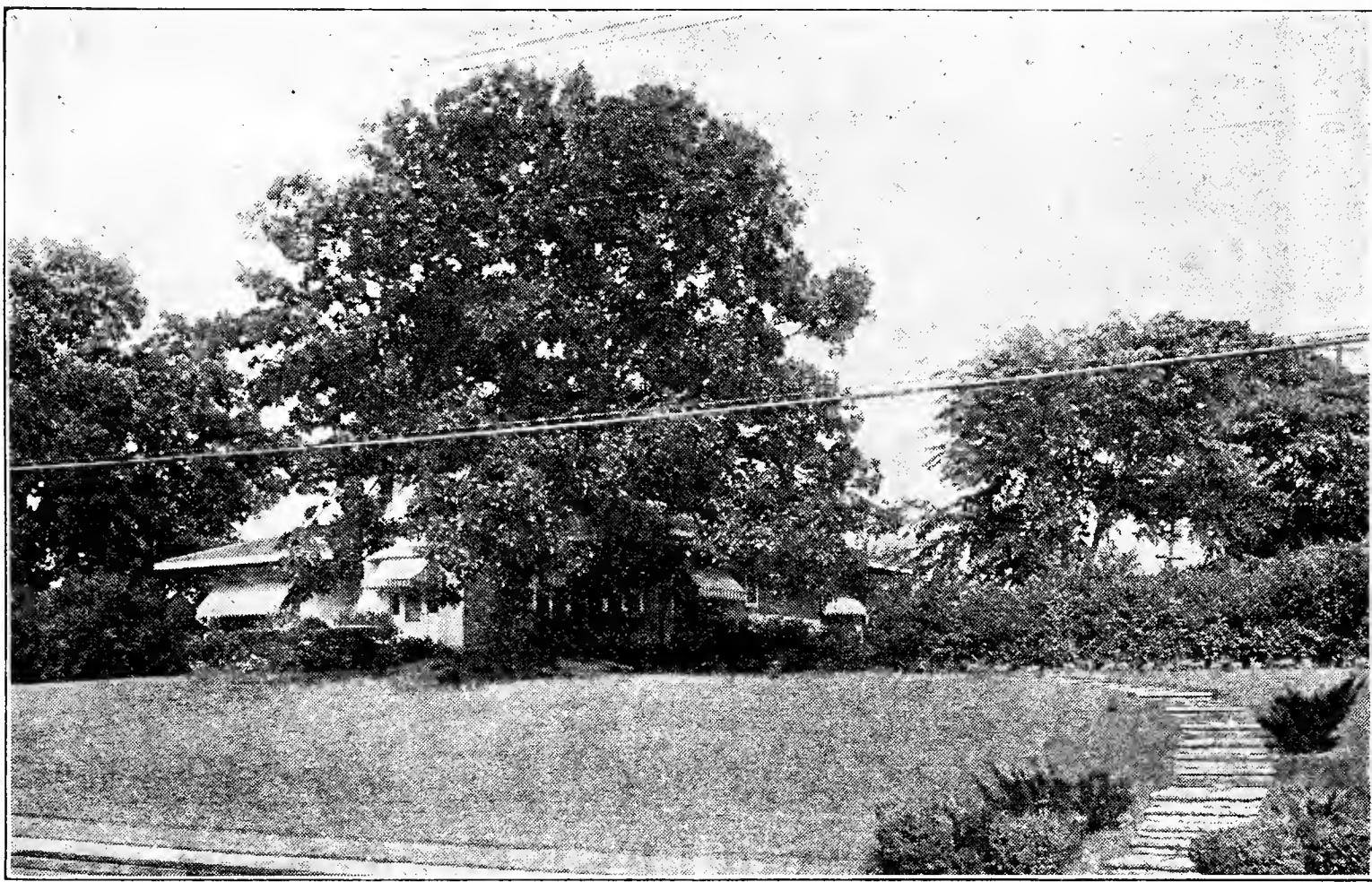
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urity, productiveness or

any other matter of any Seeds, Bulbs or Plants it sends out, and it will not be in any way responsible for the crop.





## Building the Lawn

One of the first requirements for a beautiful lawn is a good seed bed. The ground selected for a lawn should have at least a foot in depth of good soil, it should be thoroughly pulverized and liberally enriched with barnyard dressing and dug well under, the surface then must be made perfectly smooth. Make the seed bed hard and free from all small stones.

Lawn seed may be sown almost anytime from early spring until late fall with assurance that the seed will germinate well, except possibly during the very hot midsummer. Be sure in selecting the seed to be used that you get a mixture of varieties of grass seeds particularly adapted for lawn use; this includes varieties which will thrive during hot dry weather, will bear close cutting and will not be easily injured by constant trampling.

There are many methods of seeding but we recommend the following: When the surface to be seeded has been made smooth by rolling, a very light raking should be made. This will give loose soil enough to cover the seed when sown. If the seed is sown by hand, care should be taken to distribute it evenly, then rake the soil lightly to cover the seed. The entire area should then be rolled until it is smooth and firm by operating the roller both lengthwise and across. When this is done, give the ground a thorough soaking, being careful of course not to wash the seed. This should give the soil sufficient moisture to germinate the seed, unless seeding is being done during the hot dry weather.

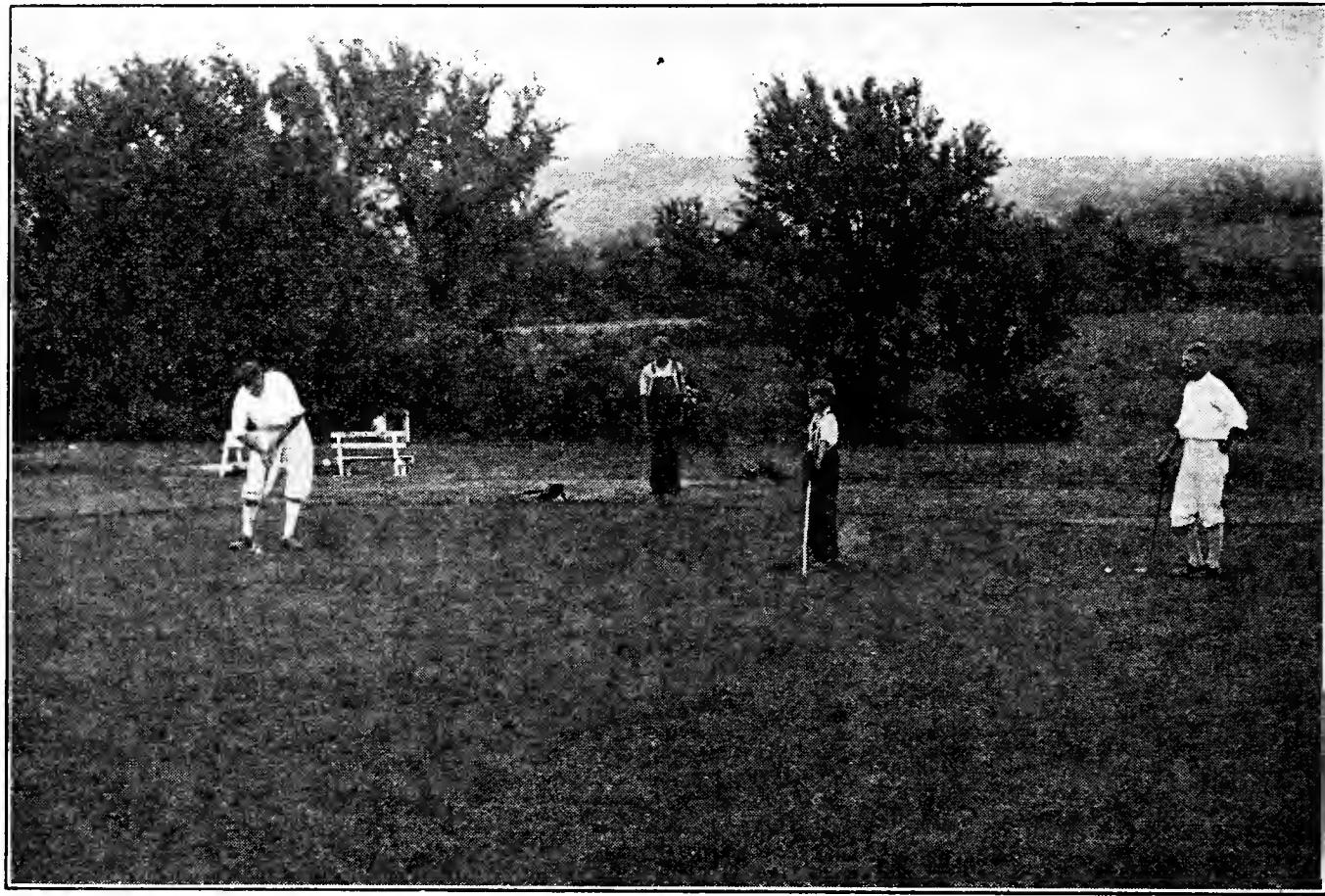
The lawn should be ready for the first cutting in four to five weeks and care must be used not to cut too close, particularly if the work is done during the hot sunshine.

## Worcester Lawn Seed

The Worcester Lawn Seed is our own mixture made from a formula which has been given a great deal of careful study and we are positive that no better general purpose lawn seed can be made. If this seed is used the lawn will be ready for the first cutting in about five weeks and with reasonable care an excellent lawn can be maintained for years. We advise using 140 to 160 pounds per acre. **Price, 1 lb. 50 cts., 2 lbs. \$1.00, 5 lbs. \$2.25, 10 lbs. \$4.25, 100 lbs. \$37.00.**

## Park Lawn Seed

This also is our own mixture and while it is a first grade seed in every respect and is composed of the same varieties as are in the Worcester, they are used in a different proportion, thus allowing us to offer the Park Lawn at a price somewhat lower. This is an excellent mixture for use on large areas where constant trampling does not occur. **Price, 1 lb. 35 cts., 5 lbs. \$1.60, 10 lbs. \$3.00, 100 lbs. \$28.00.**



## The Shady Spot Lawn Grass Seed

It is possible to produce a lawn under almost any condition but to do this in a situation where shade predominates the greater part of the time is very difficult. A shady location requires special treatment of the soil and in almost every shady spot lime must be added, but most important is the selection of the seed. There are varieties of grass seed which thrive in shade to a much greater degree than others and it is with our knowledge of this that we supply our own Shady Spot Lawn Seed. Price, lb. 60 cts., 5 lbs. \$2.75, 10 lbs. \$5.00, 100 lbs. \$47.00.

## Green Hill Lawn Mixture

We have decided to offer the Green Hill Lawn Mixture after repeated trials as we have found this to be one of the best of the solid seed mixtures. This is composed of only four varieties of grasses as follows: Creeping Bent, Rye Grass, Kentucky Blue and Red Top. These are four of the best lawn grasses known and as we use only the heaviest, cleanest seed possible to obtain, germination is assured nearly 100 percent. From this mixture you can obtain an exceptional quick sod and a lawn that can be maintained with very little care. Price, lb. 65 cts., 5 lbs. \$3.00, 10 lbs. \$5.75, 100 lbs. \$55.00.

## Golf Course Mixtures

### For Putting Greens and Fair Greens

The turf on all golf courses must be given very careful attention and there are only a few varieties of grass which will withstand the constant trampling of the putting green. Both the fairways and greens require a mixture of seed which will bear very close cutting and which will produce a turf of a strong persistent nature. Both European and American grasses are used for these purposes and we offer mixtures which are of the highest purity and germination.

Mixture for Putting Greens, lb. 75 cts., 24 lbs. (1 bu.) \$15.00.  
Mixture for Fairways, lb. 50 cts., 20 lbs. (1 bu.) \$9.00.

### Special Mixtures of Grass Seed

In addition to the several mixtures of grass seeds which we list in this catalogue, we can supply grass seed in mixtures suitable for almost any purpose or location. We will also be pleased to name prices on any special formula on request.

## Top Dressing Your Lawn

The lawn is often neglected by many of us, especially if it seems to be in a thriving condition. We overlook the fact that a continued vigorous growth of any plant life results in reducing in the soil those elements which promote growth. The soil must be fed to produce best results and this is easiest accomplished by applying a top dressing. This may be done in many ways—we recommend Loma, Vigoro, V. C. Fairway, Pulverized Sheep Manure or Pulverized Poultry Manure; a liberal application of the Ground Limestone is also always recommended.

These items are listed on pages 63 and 64, giving analysis and price.

# Grass Seeds of the Highest Grade

## For Mowings, Pastures and Lawn

Prices of all Grass Seeds subject to market changes. Prices include bags or sacks unless otherwise noted, 25 lbs. at 100-lb. price.

**BENT GRASS, SOUTH GERMAN MIXED.** Sometimes referred to as Creeping Bent. Admirably adapted for lawns, also putting greens, tennis courts, etc. Lb. \$1.40, 5 lbs. \$6.50.

**BENT GRASS CREEPING** (*Agrostis stolonifera*). An exceptionally fine strain of high purity and germination. Lb. \$2.00, 5 lbs. \$9.00.

**BENT GRASS, RHODE ISLAND or COLONIAL.** Of fine growth, forming a close and permanent sod. One of the best lawn grasses and very desirable for golf courses and polo grounds. Lb. \$2.00, 5 lbs. \$9.00.

**ENGLISH or PERENNIAL RYE GRASS** (*Lolium perenne*). Of rapid growth and productive; produces a strong growth in four or five weeks. Lb. 25 cts., 10 lbs. \$2.00.

**ITALIAN RYE GRASS** (*Lolium Italicum*). Thrives on a variety of soils, producing early and large crops. Lb. 25 cts., 10 lbs. \$2.00.

**KENTUCKY BLUE GRASS** (*Foa pratensis*). One of the most valuable grasses for pasture and lawn, requires some time to become established, but lasts indefinitely on congenial soils. Sown with White Clover it forms a splendid lawn. Lb. 35 cts., 10 lbs. \$3.00.

**MEADOW FESCUE** (*Festuca pratensis*). Largely used for permanent mowing mixtures. Lb. 20 cts., 10 lbs. \$1.50.

**FINE-LEAVED FESCUE** (*Festuca tenuifolia*). This seed will grow on very dry and inferior soils, it is very hardy and lasts long and recommended for dry slopes on lawns. Lb. 75 cts., 10 lbs. \$7.00.

**RED, or CREEPING FESCUE** (*Festuca rubra*). Its leaves are bright green and the plant does not grow in tufts but creeps by underground stems, so that one plant may eventually cover a circle two to four feet in diameter. It is used mainly as a lawn plant. On sandy or gravelly soil it makes exquisite lawns. Lb. 40 cts., 10 lbs. \$3.50.

**ROUGH STALKED MEADOW** (*Foa trivialis*). Ideal for shade. It is a perennial and grows in soil that is moist and cool. Lb. 40 cts., 10 lbs. \$3.50.

**CANADIAN BLUE GRASS** (*Poa compressa*). A hardy perennial with creeping root-stalks which form a strong turf. Lb. 30 cts., 10 lbs. \$2.50.

**CRESTED DOG'S-TAIL** (*Cynosurus Cristatus*). A stoloniferous perennial forming a smooth, compact lasting turf. Lb. 40 cts., 10 lbs. \$3.50.

**PACEY'S RYE GRASS.** Used extensively in lawn mixtures. Lb. 25 cts., 10 lbs. \$2.00.

**RED TOP, FANCY RECLEANED.** This is one of the best grasses for sowing for immediate effect. Lb. 20 cts., 10 lbs. \$1.75, 100 lbs. \$16.00.

**ORCHARD GRASS** (*Dactylis Glomerata*). For early pasturing this is very desirable; also fine for sowing in shaded places. Lb. 20 cts., 10 lbs. \$1.80.

**TALL MEADOW OAT GRASS** (*Avena elatior*). A very hardy species, making an early and luxuriant growth. Lb. 30 cts., 10 lbs. \$2.80.

**TIMOTHY** (*Phleum pratense*). Timothy is the standard hay of commerce.

**WORCESTER GRADE.** Our Worcester Grade is a seed which is of the highest quality at the start. Taken from the best fields of full ripe seed, we can assure you, that after going through the cleaning process we can guarantee a purity of 99.50 per cent. In the Worcester brand we are offering the best seed it is possible to obtain. Lb. 15 cts., 10 lbs. \$1.00, 100 lbs. \$7.50.

**WACHUSETT GRADE.** This grade is of fine quality, better than most seed offered as prime. We guarantee this 97.50 per cent pure. Lb. 15 cts., 10 lbs. 95 cts., 100 lbs. \$7.00.

## The Worcester Mixtures of Grass Seed

### For Meadows and Pastures

**PERMANENT PASTURE MIXTURE FOR MEDIUM SOIL.** Aside from permanency, an important requisite is that of continual growth from early spring until fall, and as many varieties as possible should be used which bear constant tramping and continued close grazing. This mixture is prepared with these ends in view. 40 to 50 pounds to the acre. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$24.00.

**PERMANENT PASTURE MIXTURE FOR DRY, HILLY LANDS.** This mixture is composed of grasses which thrive on light soil, endure long drought and bear, without injury, constant cropping. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$24.00.

**PERMANENT MOWING MIXTURE FOR DRY SOIL.** Contains, in large proportions, varieties which thrive on dry soil. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$24.00.

**PERMANENT, MOWING MIXTURE FOR MEDIUM SOIL.** This mixture will produce at first cutting a larger crop and a much heavier aftermath of hay, which, though not like timothy, salable in cities for feeding horses, is, nevertheless, superior for feeding to both cattle and horses. Lb. 30 cts., 10 lbs. \$2.75, 100 lbs. \$24.00.

## Clovers

**BUILD YOUR LAND WITH CLOVERS.** In the rotation of crops, clovers are most valuable, and in all sections except possibly the extreme South are indispensable.

**ALSIKE or SWEDISH CLOVER** (*Trifolium Hybridum*). One of the best for mixing with timothy; it is perfectly hardy in every climate or soil condition and seldom has to be reseeded. Lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$22.00.

**CRIMSON CLOVER** (*Trifolium Incarnatum*). This is used principally for soilng or green manuring, for which purposes it is highly valuable. If desired for feed, cut it just before it flowers. Lb. 20 cts., 10 lbs. \$1.75, 100 lbs. \$16.00.

**MAMMOTH RED CLOVER** (*Trifolium Pratense Perenne*). Sometimes called Sapling or Pea Vine Clover and English Cow Grass. This differs from the "Medium," being of a ranker growth and yielding more fodder per acre. Lb. 30 cts., 10 lbs. \$2.60, 100 lbs. \$24.00.

**MEDIUM RED CLOVER, AMERICAN GROWN** (*Trifolium Pratense*). More widely known and used than any other; used principally for hay purposes. Height from 18 inches to 2½ feet. Sow early in the spring or in late summer. Lb. 30 cts., 10 lbs. \$2.50, 100 lbs. \$23.00.

**WHITE DUTCH or LAWN CLOVER** (*Trifolium Repens*). This is valuable for pasturage as well as for lawns; it succeeds where other clovers and grasses fail, and it seldom dies out. It can be sown at all seasons, although early spring is best. ¼ lb. 20 cts., ½ lb. 30 cts., 1 lb. 55 cts., 10 lbs. or over 50 cts. per lb.

## Sweet Clovers

**BOKHARA or SWEET CLOVER** (*Melilotus Alba*). This is a native of all parts of the United States and Canada and is a valuable addition to farm crops. It is an erect branching biennial plant with woody stems growing the first season two to three feet high and developing a large root. The second year's growth usually reaches a height of four to seven feet. Lb. 15 cts., 10 lbs. or more 12 cts. per lb.

**HUBAM ANNUAL SWEET CLOVER.** This Clover has been grown successfully in every State in the Union, also Canada and Europe. Will yield well on any soil of average fertility that is not sour. Hubam makes as much growth in four months as the biennial does in fifteen months. It grows 4½ feet high and will produce pasture in a little over 30 days and a hay crop in three months. Lb. 25 cts., 10 lbs. or over 20 cts. per lb.

Use Inoculation for Clover—See Page 4.

## MILLETS

Millets are especially adapted to regions of light rainfall and hot weather. They are used principally for forage, being very valuable where Timothy is an uncertain crop. The hay is fed most satisfactorily to dairy cows and sheep. In feeding value it ranks well above Timothy.

**HUNGARIAN MILLET.** An excellent food for horses when cured. This is commonly known as "Hungarian Grass." Each root sends up several slender stems which often branch. The leaves grow upright, rather narrow. Heads are borne erect or nearly so, about four inches long, dark purple in color, bristly and very compact. Price, lb. 10 cts., 10 lbs. 70 cts., 100 lbs. \$4.50.

**TENNESSEE GOLDEN MILLET.** This variety is extensively used throughout the United States. It is grown at the same time and at the same rate per acre as the common Millet. Grows more vigorous, gives a much larger yield of hay than common Millet. Price, lb. 10 cts., 10 lbs. 75 cts., 100 lbs. \$5.00.

**JAPANESE MILLET (Panicum frumentaceum).** It is entirely distinct from all other millets. It grows from 6 to 9 feet high, stands up well and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock and is rich in milk producing qualities. Price, lb. 10 cts., 10 lbs. 75 cts., 100 lbs. \$5.00.

## Sudan Grass

Sudan, growing as it does frequently as high as 9 feet, when planted in rows and cultivated, and 4 to 5 feet when sown broadcast, exceeds any other grass in yield. For a grass its yields are nothing short of miraculous, often reaching seven tons per acre, seldom running less than four tons.

The Sudan is a hot weather crop and will produce the largest yields during a season of high temperature. Price, lb. 12 cts., 10 lbs. 85 cts., 100 lbs. \$6.00.

## Alfalfa

Sow 15 to 25 lbs. per acre.

As a soil builder the Experiment Stations tell us that it adds twice as much nitrogen to the soil as the average acre of Red Clover.

Just bear in mind that the Alfalfa plant produces an enormous root growth, these roots penetrate the subsoil to a great depth, loosening the potash stored below, making it available as plant food in such a manner as is impossible to duplicate with a plow.

**COMMON ALFALFA.** Requires well-drained land and an abundant application of lime previous to sowing. August is the best time to sow. Price, lb. 28 cts., 25 lbs. or more 23 cts. per lb.

**GRIMM ALFALFA.** Only a few strains of Alfalfa equal, and none excel true Grimm Alfalfa in hardness. It is the safest type to sow wherever there is trouble from winter killing. Price, lb. 35 cts., 25 lbs. or more 28 cts. per lb.

Use Inoculation for Alfalfa

## Barley

**WHITE HULLESS.** About two weeks earlier than the common type. The grain closely resembles wheat, is about as heavy and is said to be nearly equal to it in feeding value. It has neither hulls nor beards. Price, pk. 60 cts., bu. \$2.00.

**CHEVALIER.** A two-rowed variety. Head is a little longer than the six-rowed varieties and the grain is larger, plump, extra-heavy and in favorable seasons nearly white. Price, pk. 50 cts., bu. \$1.75.

**MANSURY.** In our section this six-rowed variety is largely grown for forage. It yields abundantly. It is early and very vigorous in growth. The straw is strong and stiff and seldom lodges. Price, pk. 45 cts., bu. \$1.45.

## Velvet Barley

Velvet Barley is a spring bearded variety, the beards are smooth, there being no barbs. The yield is not quite so large as the Common Bearded Spring Barley, but the advantage of Velvet Barley off-sets that. It is reported to us that the Velvet Barley straw is suitable for feed and the crop handles as nicely as oats. Sow two bushels to the acre. Price, pk. 50 cts., bu. \$1.75.

## SEED INOCULATION

# STIMUGERM

LEGUME INOCULATION

For Alfalfa, Clover, Beans, Peas, Vetch, Etc.

Means Better Crops, Better Soils

Less Fertilizer Expense



STIMUGERM is a culture of bacteria put up on a pure, sterilized jelly medium, in bottles. The bacteria are especially selected and bred for maximum vitality and ability to form nodules and take nitrogen from the air. STIMUGERM contains many millions of active, hardy legume bacteria, guaranteed to produce results.

STIMUGERM is economical and easy to use. Full directions for use accompany each package. STIMUGERM is dated and guaranteed for a full year.

When ordering be sure to specify crop and amount of seed you wish to inoculate.

**PRICES ARE LOW.** For small seeds—Clover, Sweet Clovers, Alfalfa, etc.

1/4-bu. size.....\$0.35 1 -bu. size.....\$1.00

1/2-bu. size.....60 2 1/2-bu. size.....2.25

Prices on Cultures for Large-Sized Seeds—Soy Beans, Cow-peas, Beans, Vetches, etc.

1/2-bu. size.....\$0.35 1-bu. size.....\$0.60

2-bu. size.....1.10 5-bu. size.....2.25

Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25 cts.

## Buckwheat

**JAPANESE.** This is entirely distinct from all other varieties. It has the advantage of remaining some time in bloom and produces seed earlier. On this account it can be grown farther north. It resists drought and blight better than most varieties. Price, pk. 50 cts., bu. \$1.65.

## Cow Peas

**NEW ERA.** An old stand-by which makes splendid hay. Matures in 60 to 75 days and does splendidly as far north as Minnesota. Vines are smaller than other varieties and are more easily cured. Price, 65 cts., bu. \$2.35.

**WHIP-POOR-WILL.** A medium-early variety, very desirable for a forage crop and for rebuilding worn out land. A very prolific yielder and the most commonly used variety for planting broadcast. Price, 70 cts., bu. \$2.50.

## Canada Field Peas

**CANADA PEAS** may also be sown with other grains as well as with oats, and are sometimes sown in August with Barley. They are also sometimes sown alone. Choice stock for seed. Price, pk. 10 cts., 10 lbs. or over 6 1/2 cts. per lb.

## Soy or Soja Beans

**BLACK WILSON.** Medium size, black seed. Considered the best all-around variety for the North. Of rather upright growth, with a good amount of foliage and a slight tendency to vine on fertile soil. Matures in 125 days and is ready for cutting in 110 days. A heavy seed producer. Price, 70 cts., bu. \$2.50.

**MEDIUM EARLY YELLOW.** The largest growing and most popular Soja Bean for forage purposes, although a little later in maturing than the other varieties. Price, 50 cts., bu. \$1.75.

## Selected Seed Oats

### Ross "Swedish Select"

#### Extra Re-cleaned Seed

Briefly described the oat is pure white in color; the hull is thin and the kernel large and plump; straw is stiff and strong enough not to lodge. A remarkable root development makes the Swedish Oat a good drought resister—a special feature on light soils. Season medium early and the earliest of the heavy yielding sorts. Especially suited to high land. Seed weighs, 40 lbs. per measured bushel. Price, pk. 30 cts., bu. 32 lbs., \$1.00, 3 bu. (full bag and over), 95 cts. per bu.

### Long's White Tartar Oats

#### THE IDEAL SIDE OAT FOR AMERICAN FARMERS

The earliest, heaviest and most prolific domestic-grown Side Oat in cultivation. It is suitable for all soils; of robust and vigorous constitution, is remarkably early and an immense cropper; the straw is long and stout, stands up well and does not readily lodge or twist. The heads measure from 8 to 10½ inches, and the kernels are of immense size, thick, plump and heavy; it is undoubtedly the heaviest cropping domestic white Oat ever offered. Price, pk. 40 cts., bu. (32 lbs.), \$1.35.

## Rye

### Spring Rye

True Stock, Spring Rye makes an excellent crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Sow seed same time as other spring grain. Price, pk. 60 cts., bu. \$2.00.

### Rosen Winter Rye

Rosen Rye produces a strong vigorous straw and stools to a remarkable degree. The grain is large, plump, heavy and of a beautiful color, commanding a premium on the market over other grains. Owing to its vigorous stooling property less seed is required, the practice being about one and one-half bushels per acre. We believe that Rosen Rye is cheaper to sow even at double the price of common rye, for the excess yield will more than pay for the seed, not to mention the better quality and high price to be obtained for the crop. Price, pk. 50 cts., bu. \$1.45, 10 bu. or over \$1.35 per bu.

## Vetches

**SPRING VETCH, or SPRING TARE.** This, like Field Peas, is used for both green fodder and for plowing into the soil. In this latitude it can be sown only in the spring and is more largely used in this season than the Hairy Vetch, which may be sown either in the spring or fall. Thriving on rather poorer soil than Canada Peas, its use is rapidly increasing as a green fodder. Lb. 15 cts., 10 lbs. or over 8 cts. per lb.

**WINTER SAND, or HAIRY VETCH (*Vicia villosa*).** While this will be of much larger growth on good soil and should be grown on such soil when the crop is designed for green fodder or hay it thrives remarkably well on light, poor soil. Though it produces on good land an enormous crop and whether used green or as hay is more nutritious than Clover and readily eaten by all kinds of stock and is therefore a profitable crop to grow for feeding, it is perhaps of greater value for other purposes. No other legume surpasses it as a nitrogen gatherer and no other equals it as a cover crop. It is perfectly hardy, remaining green all winter, and is therefore much superior to Crimson Clover in the Northern States as a cover crop. Lb. 20 cts., 10 lbs. \$1.50, 100 lbs. \$13.00.

## Dwarf Essex Rape

**Culture.** Rape is best adapted to moist, rich soil in which there is plenty of humus. Slough lands are especially good. It grows best in cool, moist weather and the time for sowing depends upon when the crop is to be used. When wanted for pasture, allow 8 to 10 weeks for it to attain maximum growth. Price, lb. 12 cts., 10 lbs. or over 8 cts. per lb.

## Mammoth Russian Sunflower

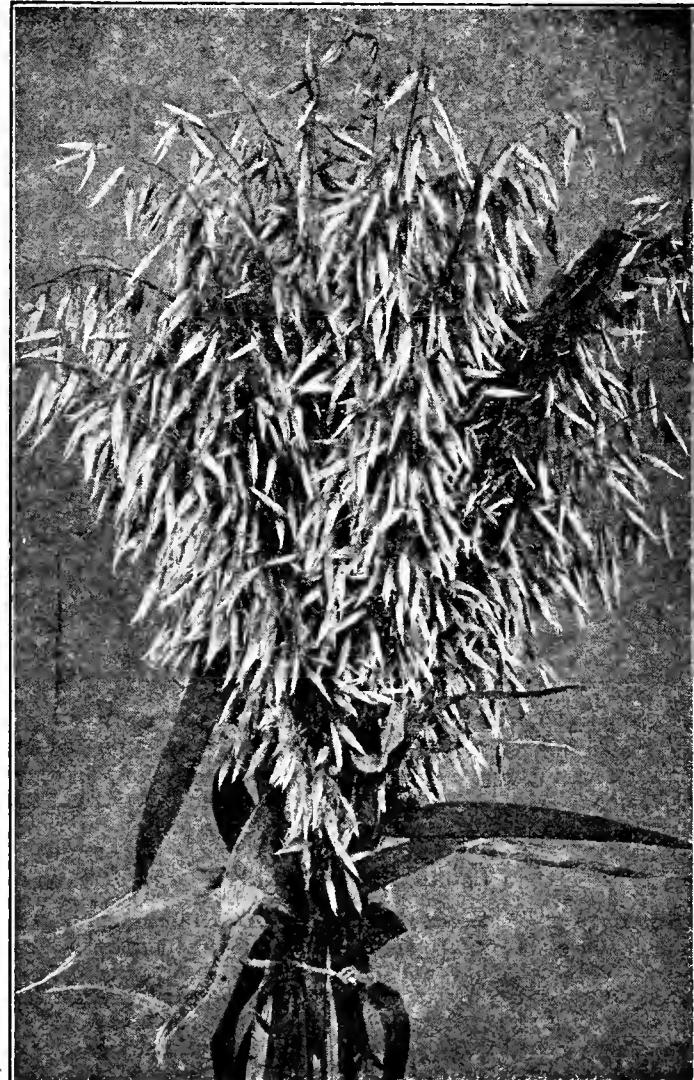
#### For the Silo

We believe every farmer, stockman and dairymen who must grow feed crops should plant a small area with sunflower. Start now to become familiar with this crop, which is destined to be a prominent feed in economical stock feeding. Price, lb. 15 cts., 100 lbs. \$12.00.

## Wheat

**MARQUIS SPRING WHEAT.** It has outyielded all other Spring Wheats grown under the same conditions of soil and climate, the increased yield being up to 10 bushels per acre. Marquis Wheat is flinty and dark in color, being almost dark red. It is a beardless variety having a smooth yellow chaff. Price, pk. 60 cts., bu. \$2.20.

**WINTER WHEAT—KLONDIKE.** Should be sown early in the fall to secure a good firm root to survive our New England winters. Winter Wheat makes an excellent green feed, coming very early in the spring and staying in condition for feed much longer than Spring or Winter Rye. A remarkably productive bald white variety, large and plump. Excellent for green feed. Price, pk. 70 cts., bu. (60 lbs.) \$2.10.



Swedish Select Oats

# SEED CORN

## DENT VARIETIES

### Worcester County Sweepstakes

It is a big yellow Dent Corn, stalks very large,  $1\frac{1}{2}$  to 2 inches in diameter, growing 12 to 15 feet high, foliage is long, broad and heavy, starting well down to the ground with an abundance of leaves and produces 15 to 25 tons per acre. It will mature from 75 to 100 days in this latitude when ready for the silo, carries an exceptionally heavy crop of ears in the milk stage, making the variety ideal for this purpose.  $\frac{1}{2}$  pk. 50 cts., pk. 85 cts., bu. \$3.25, 10 bu. or over \$3.15 per bu.

### Improved Leaming

The True Improved Leaming which we offer is a pure, fixed, and distinct variety, having been bred for earliness of maturity, size, shape and color, also for the amount of grain that each ear will produce. It ranks as one of the early dent corns, has a very heavy stalk growing twelve or thirteen feet high and very leafy. The ears are eight to ten inches long, filled with medium sized but deep kernels. Price, pk. 70 cts., bu. \$2.50, 10 bu. or over \$2.40 per bu.

### Minnesota No. 13

This dent corn has been a surprise to its users on account of its extreme earliness. The ears are not as large as some other varieties, but its large production of ears makes it a heavier yielder than most others.

The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn exceeds in quality the Minnesota No. 13; the cobs are well filled and the individual kernels, plump and of good color. Price, pk. 75 cts., bu. \$2.75.

### White Cap Yellow Dent

Stalks eight to nine feet high, with an abundance of foliage. Ears about eight inches long, sixteen or eighteen rowed, and well filled with deep kernels, the outside ends white, the balance light yellow, which gave it the name "White Cap." The early and great production of ears and abundant foliage should make this a popular variety with those who desire ears well advanced toward maturity at the season for cutting for the silo. Price, pk. 75 cts., bu. \$2.75.

### King of the Earliest

This dent variety, a selection from the Pride of the North, made by the originator of that variety, is from ten days to two weeks earlier, which we think makes it safe for planting in this latitude for the purpose of maturing grain. The cob is small and although the ears are not long the kernels are very deep and the yield is large. Price, pk. 75 cts., bu. \$2.75.

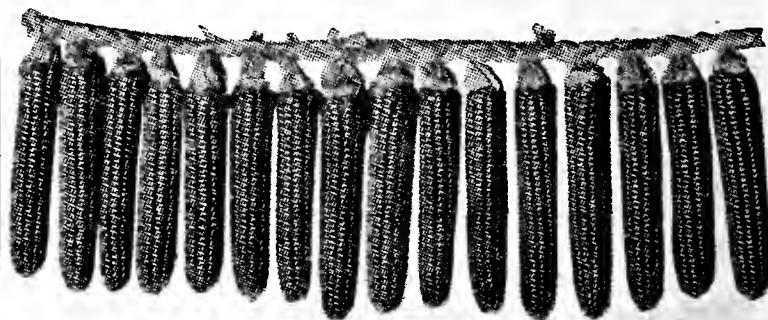
### Early Smoky Dent

#### A Dent Corn That Can Be Grown in This Latitude for Grain.

It is a very hardy grower and prolific yielder for so early a corn. This corn has nice leafy stalks, averaging 8 feet in height, which very often yields two nice ears, measuring 8 to 10 inches in length, well filled with a good sound kernel of a dark red shade, tipped with pure white, making it a very handsome corn in appearance. Price,  $\frac{1}{2}$  pk. 50 cts., pk. 85 cts., bu. \$3.00.

# SEED CORN

## FLINT VARIETIES



Sheffield Flint

### Sheffield World's Prize Flint

The ear of this corn has a very compact form, usually well capped at the tip, similar to the Improved Canada. The average length of the ear is 8 to  $8\frac{1}{2}$  inches, the kernels are very broad, and of dark color. This corn exceeds in proportion of corn to cob any other variety.

Owing to the fact that Sheffield Corn will mature in a short season and also give a minimum quantity of forage, it is being used quite generally for silage in the states of New Hampshire and Vermont.  $\frac{1}{2}$  pk. 50 cts., pk. 85 cts., bu. \$3.25.

### Early Canada Flint

Improved strain. This strain is in most respects identical with the original, but the ears are longer and stalks are of slightly larger growth. Ears of the original are about six inches in length while of this strain they are about two inches longer, and of similar or nearly identical strains known as Early Greenfield, Deerfield and Connecticut Valley, ears are often nine inches or longer. Price,  $\frac{1}{2}$  pk. 45 cts., pk. 80 cts., bu. \$3.00.

### Sanford White Flint

It is an eight-rowed white flint variety, the popular type in Rhode Island, being cultivated there almost to the exclusion of the yellow flint. The ear of the strain which is more generally grown there and which we offer as the Rhode Island strain, is of about the same size as the Improved Canada, resembles it very closely, except in color, having the same broad kernel and well-filled tip and ripens with or very close to it. The variety is rather more leafy than other flint varieties, which is doubtless the reason for its popularity for ensilage in the northern part of New England. Price,  $\frac{1}{2}$  pk. 45 cts., pk. 80 cts., bu. \$3.00.

### Golden Nugget Flint

This is one of the most prolific varieties of flint corn. The ears will average about 10 inches in length and are well filled with 8 rows of exceptionally large, broad kernels of a light golden yellow color. These kernels are about twice as large as other flint corns. Price,  $\frac{1}{2}$  pk. 60 cts., pk. \$1.00, bu. \$3.50.

### Luce's Favorite

This is a large, late, semi-dent corn; 8 to 10 rowed ears, 10 to 14 inches long. The fodder is large and abundant, and is used for ensilage purposes in large quantities in New York State. This variety is a much heavier yielder and better for ensilage than Longfellow Yellow Flint or any other flint varieties. We can supply true stock of this variety. Price,  $\frac{1}{2}$  pk. 60 cts., pk. \$1.00, bu. \$3.50.

### Longfellow Flint

This, for a long time, has been very popular in southern New England. Ears are eight-rowed and of remarkable length—12 to 14 inches, with occasionally one 15 inches. Stalks are considerably taller than the Improved Canada, but not so large but that they make excellent and easily handled dry stover. Price,  $\frac{1}{2}$  pk. 60 cts., pk. \$1.00, bu. \$3.50.

### Sweet Fodder

Unexcelled for cutting green and feeding to stock. It should be included in all siloing schedules. 10 lbs. \$1.00, 100 lbs. \$3.50.

# ROSS GENUINE EUREKA ENSILAGE CORN



Another season is with us and the selection of good seed of the right varieties is always a problem to the planter. In the selection of a corn to plant for silage, it is very important that at least two things be considered—yield and quality. During the past 42 years many tests for yield per acre and quality of silage have been made and it has been astonishing to thousands of farmers that the Eureka has so far surpassed all other varieties—we refer to the genuine Eureka corn. Under all situations Eureka Corn will outyield any other variety. Because of its deep rooted nature it will produce heavy crops on light soil and will respond quickly to fertilization on soil of any character.

Eureka Corn has the undisputed record of a heavier production of silage material per acre than any other variety. The production of seventy tons and eight hundred pounds per acre in Michigan in 1911 has not been beaten. In the Southern states where the season is long the Eureka Corn will mature and the enormous ears produce a heavy crop of ripened grain. In the Central states it will not mature for grain except in the unusual seasons; however it does produce a tremendous amount of green corn with ears in the milk stage which if put into the silo at the proper time makes a silage of the highest quality. Our Canadian friends in the Province of Ontario, who have used the Eureka for many years, tell us that where only a very few varieties of corn will mature for grain, the Eureka produces a wonderful crop for silage and they would not like to do without it. The Eureka is of such a hardy and rugged character that even in a cold wet Spring it will germinate and grow where some other varieties will fail to even germinate, thus getting a much earlier start as it can be planted ahead of most other sorts.

The Eureka is our own introduction, being first placed on the market by us forty-five years ago and we still offer the genuine Eureka, which is far superior to many varieties which are sold under this same name. For the protection of the planter, the Eureka comes put up in trade marked bags and our suggestion is that you accept your Eureka Seed Corn in no other package.

Oregon.

Gentlemen:

I had a fine crop of the Eureka corn this year. The seed I got from you was good. I think nearly every kernel grew. I will want some more seed this year. Will send in my order later.

Yours truly,  
James Landreth,  
Massachusetts.

Gentlemen:

The corn I received from you made a perfect stand. Every kernel seemed to germinate and I had four acres of corn averaging 15 feet high. It eared out fairly well, some stalks having two and a few three ears to the stalk, and as we had a late frost the corn was right in the milk when I cut it.

Yours truly,  
E. M. Viewez.  
Wisconsin.

Gentlemen:

I will let you know that I was well satisfied with the Eureka corn. It was 16 ft. high. We filled a 14x34 silo from four acres. A friend of mine got 2 bushels from me and he was well pleased with it. I will send for another order in the spring.

Yours truly,  
Henry Kasper.

Gentlemen:

I wish to say that I have harvested a splendid crop from the Eureka Ensilage Corn which I purchased from you last spring. Many of the stalks were so tall that, even standing on the top of my corn binder, I could scarcely reach the first ear, and many of the stalks carried 3 or 4 ears. One stalk measured 19 feet and 1 inch from the ground to the tip of the tassel.

I was very well satisfied with the crop. Yours truly,  
Geo. A. Dunkelberger.

Ohio.

Gentlemen:

The Eureka Corn I bought from you last year was very good as usual. I filled two big silos from fifteen acres and had enough left to refill.

I have used your Eureka Ensilage corn for about twenty years and will use nothing else if I can get it. You can mark me down for a few bushels again this year.

Yours truly,  
H. J. Stoneman.

New York.

Gentlemen:

I have used your seeds for several years and found them good. Your Early Canada Flint is the best I ever raised, the only corn that got ripe in town. Sudan Grass was fine.

Respectfully,  
Austin A. Ross.

Don't buy a bushel of "Eureka Corn" unless it has our trade-mark printed on the bag. There is nothing just as good, and you take a chance of losing as many dollars as you save cents.

Price of Eureka Corn for 1932 Bags included  $\frac{1}{2}$  Pk. 40 cts., Pk. 75 cts.,  $\frac{1}{2}$  bu. \$1.45, bu. 56 lbs. \$2.80, 10 bu. or over \$2.75 per bu. in our trade-marked bags.



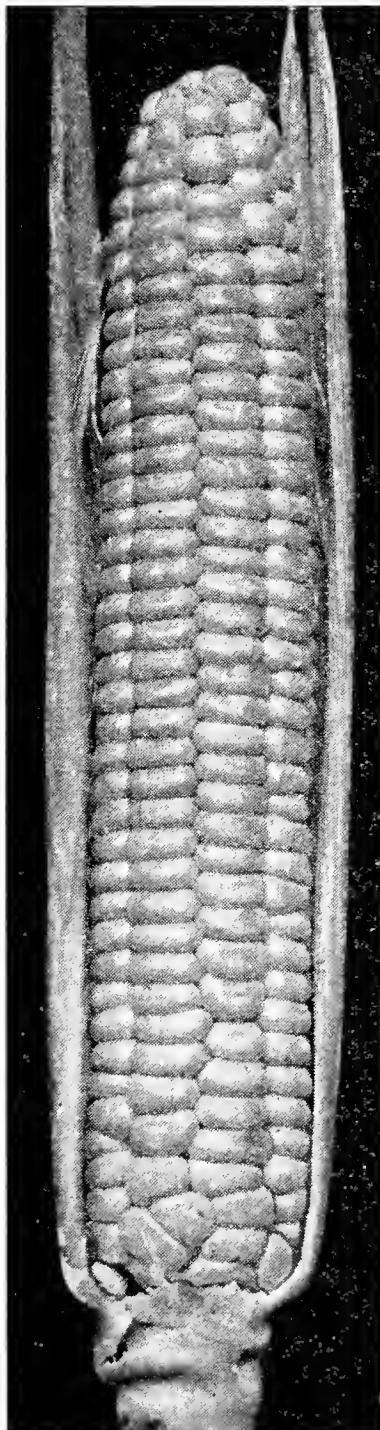
# Sweet Corn—Yellow Varieties

1 lb. will plant about 200 hills, 10 to 12 lbs. to the acre

We pay postage on one pound or less; for larger quantities by parcel post, remit postage. See inside front cover.

Sweet Corn should not be planted until ground is warm, and can not usually be safely planted in this latitude much before the middle of May. The small early varieties may be planted in the garden as close as 2½ by 2 feet, but in the field are generally planted 3 by 3 or 2½ feet. In the small garden, however, a more economical use of space can be made and the product secured a little earlier by making rows several feet apart, planting in the intervening space any early, low-growing crop like radish, spinach, or lettuce, and following this with a second crop of cucumbers for pickles, winter squash, celery or turnips, the corn ripening in time for removal of the stalks before they greatly interfere with the growth of the second crop. The later and larger varieties require more room. Corn thrives best on warm, rich soil and succeeds only when given frequent but shallow cultivation. But three stalks should be allowed to grow to a hill.

To have the finest Sweet Corn it must be picked in just the right condition, that is, when the skin of the grain breaks at the slightest puncture. It will be of inferior quality if it is either a few days too old or too young.



Golden Bantam

## Golden Bantam

### A Favorite with All Who Have Grown It

The most famous sweet corn in the world today; it has been gaining in popularity ever since its introduction about 20 years ago. It is the richest and sweetest of all varieties of sweet corn.

Golden Bantam is dwarf, the stalks are usually 5 to 6 feet high and the foliage is short, allowing it to stand closer together in the small garden and thus produce a large crop on a small area. We recommend planting Golden Bantam every ten days during the planting season and you will be assured of a continuous supply of the best sweet corn. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Golden Sunshine

The earliest of the Golden Bantam type, maturing a week to ten days earlier than that variety; more dwarf in habit than Bantam, with ears 6½ inches long, containing 12 rows of broad, yellow, sweet grain; especially desirable for its extreme earliness. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Golden Giant

Awarded the Silver Medal for novelty and excellence at Massachusetts Horticultural show. Ears twice the size of Bantam and being from 14 to 16 rowed gives nearly four times the yield per acre; richer in color, more delicious, equally early. The husks are striped with red and very heavy. Golden Giant can be highly recommended to the market gardener because of the large ears and good shipping qualities of the corn.

Golden Giant is the result of eleven years' selection by Dr. F. S. De Lue of Boston, Mass., from a product of "Howling Mob crossed with Golden Bantam." **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Whipple's Early Yellow

Twice the size of Golden Bantam and matures about the same time, grows ears 7 to 8 inches long and 12 to 16 rowed, with often two ears to one stalk. Quality is unequalled. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Black Mexican

A popular variety; until the introduction of the Golden Bantam, the sweetest of all. Ears of medium size; kernels large, when ripe bluish black, but at proper stage for cooking, the color shows but little if at all. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Bantam Evergreen (Yellow)

A yellow variety maturing about 10 days after the Golden Bantam and a week earlier than the Stowell's Evergreen white. It has an ear three times the size of Golden Bantam and runs 12, 14 and 16 rows to the ear. The stalk is about 6 feet tall and is perhaps 1 foot shorter than Stowell's Evergreen and 2 feet taller than Golden Bantam. The Bantam Evergreen has the tender and sweet qualities of the Golden Bantam and combines the quality of the Golden Bantam with the productiveness of Stowell's Evergreen. As a table variety it is unexcelled. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## White Varieties—Early Dighton

An extra early variety growing about four feet high and yielding usually two ears to the stalk. The ears eight to ten rowed, six to seven inches long, the grain white with pink cob. Matures ten days earlier than Early Mayflower and we believe it is a profitable variety for the market gardeners. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

**COUNTRY GENTLEMAN.** Medium size, with irregular rows of very deep and slender kernels and small cob. Sweet and tender, not surpassed in quality by any other variety with white kernels. Plant very productive, often yielding three and sometimes four good ears. Plant liberally, as the kernels being much shriveled, seldom germinate so well as those of the regular type. Ready for use a little before the Stowell's Evergreen. **Pkt. 15 cts., 1b. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Sweet Corn—Continued

**EARLY CROSBY. New England Strain.** This has been for years the most popular second-early strain in New England, and is largely grown elsewhere. Ears are intermediate in size between those of the first-early sorts and the Kendel's Early Giant, especially attractive and distinct, having rather small, almost square kernels packed so closely on the cob that there is no space between the rows, as with other varieties; has always twelve or more rows and tip is completely covered. Not only an unusually attractive ear, but of a size preferred by many, and corn is superior quality. **Pkt. 15 cts., lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

**EARLY MAYFLOWER.** One of the whitest and sweetest of the early varieties; an exceptionally good yielder and one that deserves to be planted to come in ahead of Golden Bantam; ears average 8 inches with deep kernel. **Pkt. 15 cts., lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

**STOWELL'S EVERGREEN.** The best known and most largely planted of all the varieties. The Stowell's Evergreen is hard to beat and for a long time to come many will have it in preference to any other sort. This corn is distinguished by the large ear, the long deep kernels, its rich, sugary flavor and its long keeping qualities. It is the standard late sort. **Pkt. 15 cts., lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

## Pop Corn for Planting

**WHITE RICE.** This variety of pop corn is an old and tried corn. It is the heaviest yielder of all and of very good quality. The stalks grow from 5 to 6 feet tall and produce two to three ears each. The ears are about 6 inches long and covered from butt to tip with long, hard, flinty kernels. When popped the kernels are very large and tender. We recommend this variety especially for its large yielding ability and its popping qualities. **Pkt. 15 cts., lb. 25 cts., 10 lbs. or over 20 cts. per lb.**

### Dwarf White Hulless

This is the dwarf variety of pop corn used so extensively by pop corn venders all over the United States. The kernels are similar in color and shape to the older types of white rice, except they are more slender and longer. Is of the dwarf growing habit. Ear about two to three inches long. The kernels on an average cob, however, will produce nearly twice as much popped corn as the average larger sized white rice cob, with practically no wastage. Matures in about 65 days. **Pkt. 15 cts., lb. 30 cts., 10 lbs. or over 25 cts. per lb.**

### Corn for Popping

**TANNER BRAND** (shelled) 1 lb. pkgs. Price, lb. 15 cts.

**WHITE RICE** (shelled). Price, lb. 10 cts., 10 lbs. or over 9 cts. per lb.

**WHITE RICE** (on the cob). Price, lb. 13 cts., 2 lbs. 25 cts.

**DWARF WHITE HULLESS** (shelled). Price, lb. 12 cts., 10 lbs. or over 10 cts. per lb.

### SPECIAL PRICES IN LARGER QUANTITIES

### Herbs

	Oz.	Pkt.	Oz.	Pkt.
Anise	...	\$0.10	Lavender	..... \$0.50
Caraway	\$0.30	.10	Marjoram, Sweet	.35 .10
Catnip	...	.10	Sage	.40 .10
Coriander	..	.10	Savory, Summer	.35 .10
Dill	.15	.10	Sweet Basil	.30 .10
Fennel	.50	.10	Thyme	.35 .10

De Lue's Golden Giant

### Seeds Used for Flavoring and Pickling

	Oz.	Oz.	
Caraway	\$0.20	Dill	\$0.10
Celery	.10	Fennel	.20
Coriander	.20	Mustard	.10

### Rhubarb Roots

Victoria, 1 year roots..... 2 for \$0.25

### Bird Seeds

Best recleaned; for feeding only

	Lb.	100 lbs.
Canary	..	\$0.15
Hemp	..	.12
Lettuce	..	.30
Rape	..	.12
Sunflower, striped	..	.12
Flax	..	.16
		11.00

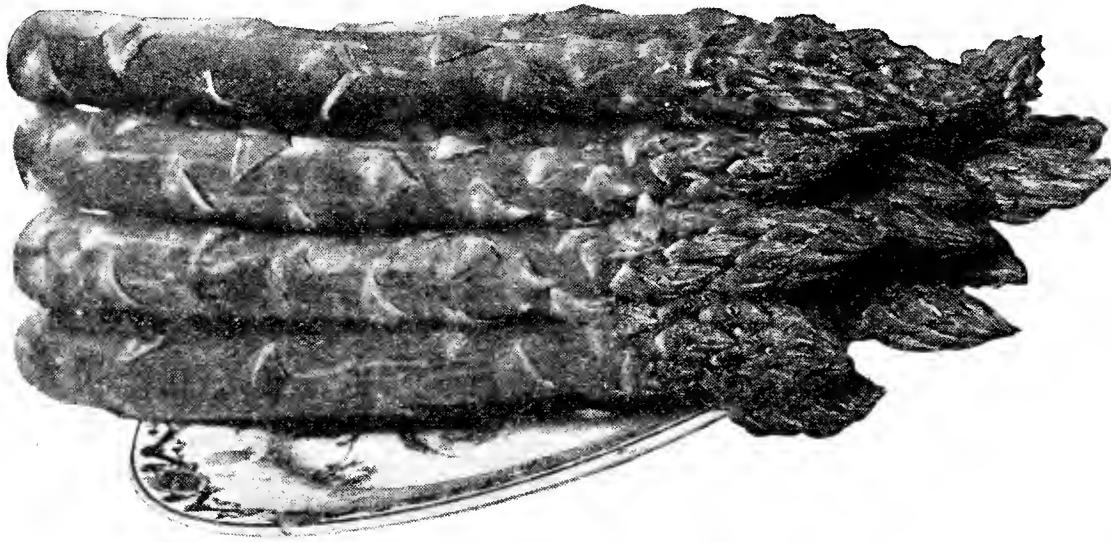
### Raffia for Tying

Raffia is the straw colored inner skin of a palm found in Madagascar. It is very strong and tough, but soft and flexible, which makes it the very best material for tying vegetables, plants, vines, etc. It is better than twine, as it does not cut the plants and is much stronger. It is also used for making baskets. Raffia comes in hanks from 1 to 5 lbs. We offer the best grade. Price per pound 35 cts.



# General List of Vegetable Seeds—Asparagus

An ounce will sow about 60 feet of drill, and produces 200 or more plants.



time of setting, filling the trench gradually as the plants grow. The plants should have frequent cultivation and yearly heavy applications of manure or fertilizer. The third year from setting, two or three cuttings may be made; after that, all that are possible until time for early peas.

**MARY WASHINGTON ASPARAGUS.** This is a strain which has been under the direction of the Bureau of Plant Industry of the United States Department of Agriculture. The Bureau began this work at Concord, Massachusetts, in 1906, rust-resistance being one of the principal features desired. From a single plant discovered at Concord in 1910, a commercial strain has been developed.

Washington Asparagus is a rust-resistant, vigorous, high yielding strain of giant asparagus. The plants represented in its pedigree of the last three generations are the best found in a ten years' search among millions of plants tested. By test, we mean the ones that have produced offspring, uniform rust-resistant, high yielding, of large size and rapid growth, all of which qualities indicate tenderness.

Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 60 cts.

**GIANT ARGENTEUIL.** Popular in France on account of its large, thick, green stalks, being a special favorite in the Paris markets. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**PALMETTO.** Early and productive. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

## Asparagus Roots

The easiest way to obtain an Asparagus bed is to set out the roots. It takes 3 years to establish one from seed, but with our large, two year roots a bearing bed may be had in 2 years.

We can furnish strong selected roots of the variety listed, 50 in a bunch, at the following prices:

**MARY WASHINGTON.** Doz. 30 cts., 50 \$1.00, 100 \$1.75 postpaid. By express, 100 \$1.50, 1,000 \$12.00.

## Artichoke

**GREEN GLOBE.** Perennial, large-flowering heads, cooked like Asparagus. Matures second year; not hardy in the North. Pkt. 20 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

## Brussels Sprouts

A very hardy plant of the cabbage family, growing from 2 to 3 feet high, producing from the sides of the stalk numerous small heads about 2 inches in diameter. Sow about the middle of May, and treat generally as directed for cabbage.

**IMPROVED HALF-DWARF.** Pkt. 10 cts., oz. 25 cts.

## Broccoli

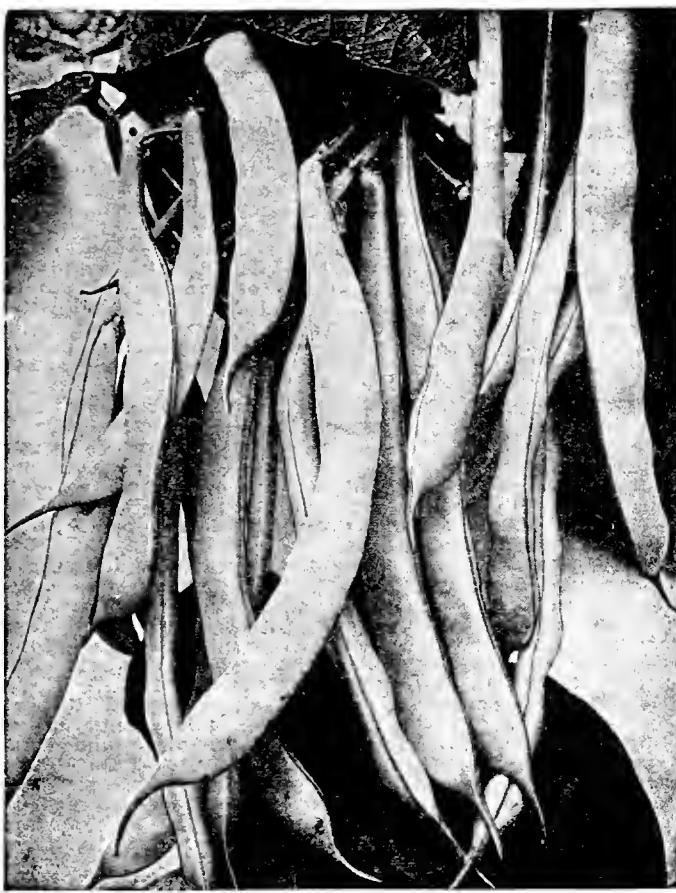
**ITALIAN GREEN SPROUTING.** (Close-Heading.) Can be planted and used the same as Cauliflower, having a bluish green color and largely used by Market Gardeners. Be sure that the plants have plenty of water. Seed started in June will make heads which will be in good condition all winter. Seed started earlier will bring heads in for summer. Remember that Broccoli takes longer to mature than Cauliflower and so allow two or three weeks more. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.

**WHITE CAPE.** Very white, sure to head. Resembles a coarse Cauliflower, but withstands greater extremes of temperature. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.

To grow asparagus from seed, sow as early as ground can be worked. Make the soil rich and sow in drills one foot apart and an inch or more deep. If the bed has good care, the roots may as well be transplanted to the permanent bed early the following spring as to wait another year, as is generally done. The soil should be thoroughly and as deeply worked as possible and can hardly be made too rich. In the field, the rows should be from four to six feet apart, but in the garden where the cultivation is to be done by hand the rows may be as close as two feet apart. Make broad trenches 8 inches deep, and if the roots are well spread, the crown will be 6 inches below the level. Cover with but an inch of soil at



Broccoli—Italian Green Sprouting



Improved Golden Wax Beans

**IMPROVED GOLDEN WAX.** An old, well-known and popular variety of excellent quality. Pods flat, long, golden yellow. One of the earliest and best dwarf wax varieties for the private garden. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**PENCIL POD WAX.** This very handsome black wax sort is medium early, fairly hardy and productive. It is one of the very best sorts for home use and for near markets where highest quality is desired. The plants are strong growing with roughened leaves. The pods are long, five and one-half to six inches, straight, round, fleshy and of a bright yellow color. They are tender, absolutely stringless and are produced through a long season. Seed long, round, medium sized, solid black. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**ROUND-POD KIDNEY WAX.** Of unsurpassed quality. One of the best for the home garden and very desirable for market, where round-podded varieties are popular. Pods are long, very white and wax-like; uniformly perfect in shape and vine is very productive. **Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.**

**SURE-CROP STRINGLESS WAX.** An absolutely stringless, rust-proof wax-pod, bush bean. Pods seven to seven and one-half inches long, about half an inch in diameter, and a beautiful rich yellow color. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**WARDWELL'S KIDNEY WAX.** A very popular variety, especially in some localities, because of the large size, handsome appearance and excellent quality of the pods. The pods are flat, broad, and usually five to six inches long, of delicate, waxy yellow color, stringless and brittle. Very widely used by market gardeners. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

### Dwarf or Bush Green Podded Sorts

**BOUNTIFUL.** Vine unusually thrifty, rarely affected by blight, bears early, profusely and for a long time. Pods large, flat but thick and meaty, stringless and tender. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**BOSTON SMALL PEA.** More largely used than any other variety for baking. Choice select. **Pkt. 15 cts., 1 lb. 25 cts., 2 lbs. 45 cts., 10 lbs. or over 18 cts. per lb.**

## BEANS

INOCULATE THIS  
SEED WITH  
STIMUGERM

1 lb. will plant 100 feet of drill. 60 to 90 lbs. will plant an acre.

Beans succeed best in warm, light soil of at least average fertility. In this latitude it is not usually safe to plant much earlier than the middle of May. If planting is made earlier and is followed by especially wet or cold weather, the planter should not blame the seedsmen if beans fail to germinate. Plant the dwarf varieties in drills 2 to 3 feet apart, about 2 inches deep, and thin plants 4 to 6 inches apart. Give frequent, shallow cultivation until time of blossoming.

### Dwarf Wax or Butter Beans

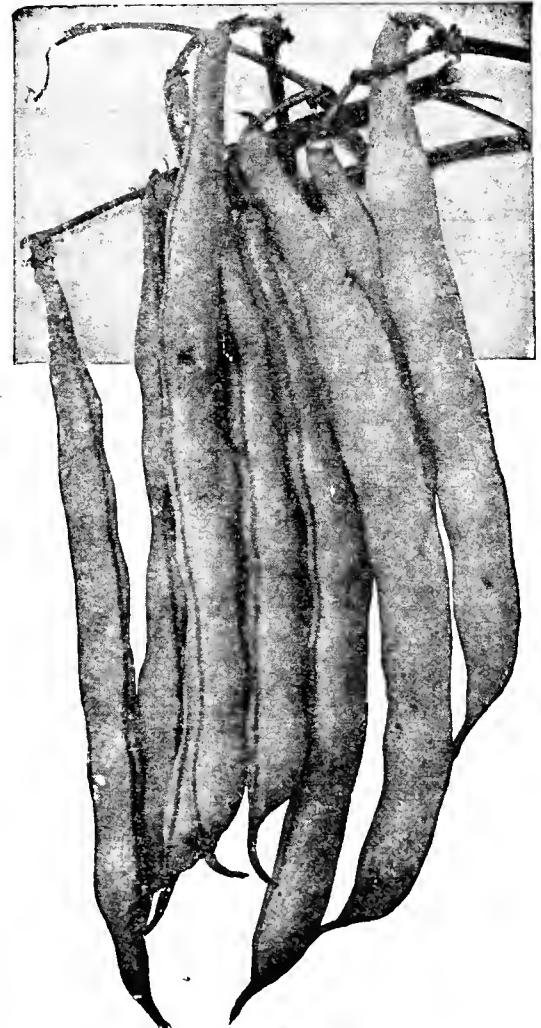
**BLACK WAX, PROLIFIC.** One of the best for a home garden, perfectly stringless and of excellent flavor. Pods are medium size, round and of a clear waxy white color. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**BRITTLE WAX.** One of the best early varieties. The pods are round and long, often six inches in length, and a rich golden yellow; stringless and tender. When ripe, makes good shell beans. **Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.**

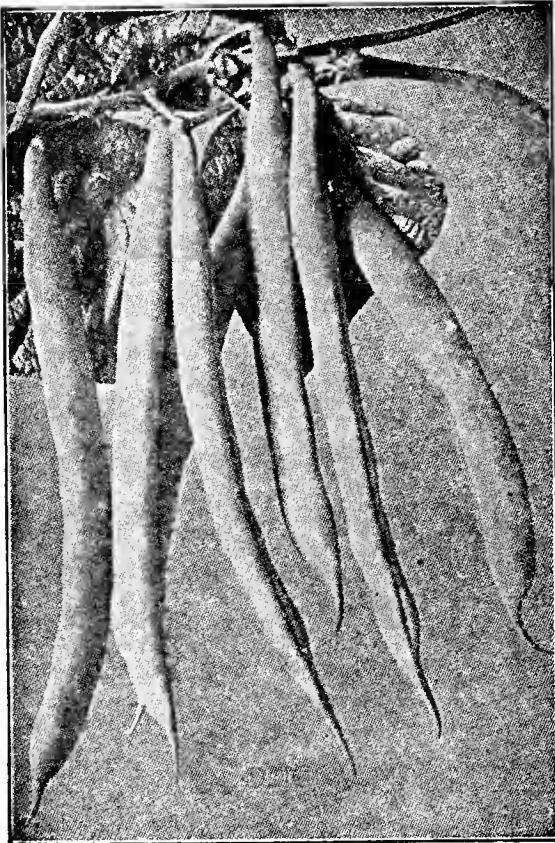
**GOLDEN-EYED WAX.** Next to Horticultural Wax in its freedom from rust, and superior to that in quality though not equal to most others in the list. Pods of good length, flat, straight, waxy yellow and attractive. Popular with market gardeners. **Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.**

We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See inside front cover.

We suggest  
Prolific Black  
Wax, Brittle  
Wax, Pencil Pod  
Black Wax or  
Sure Crop String-  
less Wax for the  
home garden.



Sure-Crop Black Wax



Prolific Black Wax Beans

**IMPROVED YELLOW EYE.** One of the best sorts for baking; extremely productive and of superior quality. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

**RED KIDNEY.** Large red kidney-shaped beans of excellent quality. The old-fashioned baking bean. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 22 cts. per lb.**

We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See inside front cover.

## Beans Dwarf or Bush Green Podded Sorts

### Don't Forget—Stimugerm for Beans

**BURPEE'S GREEN POD STRINGLESS.** A very desirable dwarf podded snap sort for the home garden and largely grown for the market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, larger than those of Red Valentine, but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**DWARF HORTICULTURAL.** Pods thick, broad, of medium length, yellowish green splashed with red when at the stage of fitness for green shell beans and are then very attractive. Beans are large, oval, easily shelled and of fine quality. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**FRENCH'S HORTICULTURAL.** This is a bean of the horticultural type which has been grown quite extensively in some localities by the Market Gardeners for a number of years. The vines are compact and of upright growth; almost always sending out runners to a height of one and one-half to two feet, but do not climb a pole and are not of sufficient length to affect the bean in any way. The pods when ready to use are a yellowish green splashed with a bright crimson. Very prolific. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**EARLY LONG YELLOW SIX WEEKS.** The vines of this variety, known also as Long Yellow Six Weeks, are large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps. This sort is early maturing and a fine shipper. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**GIANT STRINGLESS GREEN POD.** Makes an excellent succession to Burpee's Stringless Green Pod when planted at the same time. The plants are of strong growth; pods slightly curved, quite meaty, being broadly rounded and saddle backed; brittle and stringless at all stages. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**GODDARD, or BOSTON FAVORITE.** Vine very large, vigorous and productive. Pods long, larger than the Dwarf Horticultural, similar in color and marking. Beans large, kidney-shaped, of excellent quality. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**IMPROVED GREEN POD.** Makes an excellent succession to Burpee's Stringless Green Pod when planted at the same time. The plants are of strong growth; pods slightly curved, quite meaty, being broadly rounded and saddle backed; brittle and stringless at all stages. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

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### English Broad Bean

1 lb. will plant about 50 hills

The dwarf lima class cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas, as the vines require no support. They can also be grown closer together than those, are equal in quality to pole limas and as a rule are earlier maturing.

Limas require a longer season for maturing than other garden beans. Do not plant till the ground is dry, weather warm and danger of frost is over. If possible, select rich, light soil. Plant in drills two or three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half the other and plant four to six beans in a hill. Hoe often, but only when the leaves are dry.

**HENDERSON'S BUSH LIMA.** A bush of the Sieva Lima; beans small but vine is productive and bears early. **Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**BURPEE'S BUSH LIMA.** A bush form of the Large Lima, which it closely resembles and approaches in size. Very popular. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**BURPEE'S IMPROVED BUSH LIMA.** A distinct strain. The earliest, largest and the best of all large limas. This new strain differs from the popular Burpee's Bush Lima in bearing uniformly much larger pods, producing more beans, while both pods and beans are much larger and thicker. While the beans are as large as those of the Large Lima, the crop of the Improved is ready for gathering from eight to ten days earlier. In quality the beans are equal to any, being thin-skinned, juicy and of fine flavor. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**FORDHOOK BUSH LIMA.** The Fordhook Bush Lima Bean is not a selection made by man from the Dreer's Bush Lima, but created by nature, a single sport found in the field of Dreer's or Challenge Pole Lima, and has now become one of the leading varieties of Bush Lima Beans. The plant is of stiffly erect habit, the beans are much larger and of superior quality and even when full size are juicy and of fine flavor. **Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts.**

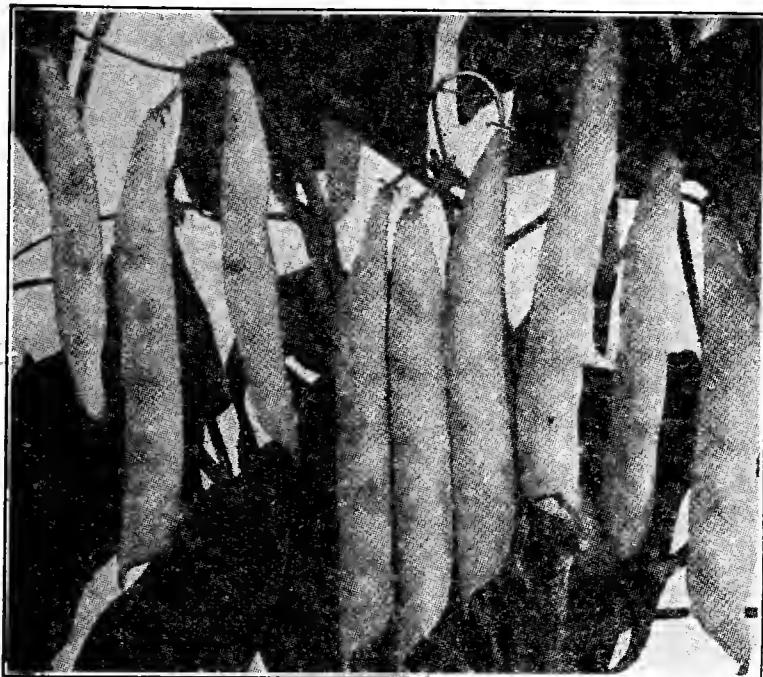
### Pole or Running Lima Beans

1 lb. will plant about 100 hills

These, like the Dwarf Lima, are tender and should not be planted in this latitude much before the first of June, and even then a liberal quantity of seed should be used to be more nearly certain of a uniform stand. Three plants, however, are all that should be allowed to grow in a hill.

**KING OF THE GARDEN LIMA.** Earlier than the Large Lima, and pods are longer and often contain five beans of the largest size. The vine is large and of remarkably vigorous growth and will produce larger pods and bear earlier if only two are allowed to grow to the pole. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**

**SEIBERT'S EARLY LIMA.** The earliest variety; vine vigorous and very productive and continues so from the first to the last of the season. While the pods are short and rarely contain more than four beans, the total yield compares very favorably with other varieties. A desirable feature of this variety is the ease with which the pods are opened, owing to the fact that they are very thin. **Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.**



Wardwell's Kidney Wax

## Beans—Pole or Running— Wax Podded Sorts

1 lb. will plant about 100 hills

Although pole beans require considerable care and labor, they are, when properly grown, usually of longer bearing period. Pole beans are more sensitive to wet and extremes of temperature than the dwarf varieties and should not be planted as early. Poles should be set in rows about 4 feet apart, preferably running north and south, allowing about 3 feet between the poles in the row. The safer way is to plant six to eight beans around each pole and thin to three or four plants. Beans should be about two inches below the surface and are more generally pressed into the soil, eye down, instead of dropped and covered, as they come up a little sooner planted in this way. Like the dwarf beans, they require frequent shallow cultivation.

**GOLDEN CLUSTER WAX.** Pods long, broad, thick and fleshy; borne in clusters, creamy white in golden yellow; of best quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

## Beans—Pole or Running—Green Podded

### Don't Forget—Stimugerm for Beans

**"KENTUCKY WONDER WAX."** This pole bean is quite similar to the very popular green podded Kentucky Wonder, except that the very long pods are a little broader, and of a waxy golden yellow. These are very attractive, fleshy, stringless and not surpassed in quality. The vine is remarkably vigorous and its earliness and hardiness commend the variety as one well adapted for even northern latitudes. The seed even from the most matured crop is usually somewhat shriveled. Like the green podded Kentucky Wonder, this is very productive, and we believe it to be generally superior to any other wax podded pole bean. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.

**KENTUCKY WONDER, or OLD HOMESTEAD.** Pods are borne in large clusters, are of unusual length, nearly round, silvery green; when young, crisp, entirely stringless, of fine texture and flavor. Vine bears early and is very productive. Used only as a string bean. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**LONDON HORTICULTURAL, or SPECKLED CRANBERRY.** Pods short, broad, yellowish, streaked with bright red. Beans in general appearance identical with Dwarf Horticultural, of about the same size, more nearly round; of the best quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**SCARLET RUNNER.** Largely grown as an ornamental climber; its rapid growth and early production of dazzling flowers make it a favorite for covering screens, walls, etc. It is also of excellent edible qualities, but rarely grown for that purpose. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.

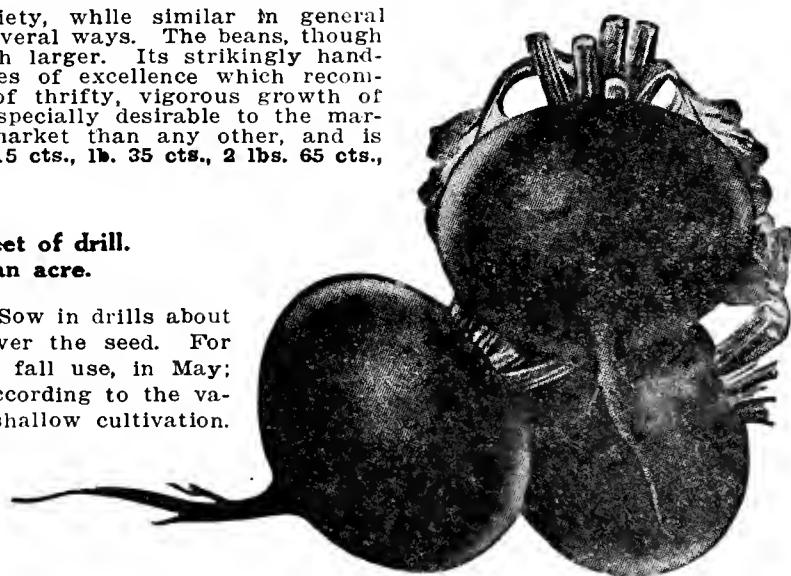
**WORCESTER MAMMOTH HORTICULTURAL.** This variety, while similar in general character to the Horticultural Pole, is much superior in several ways. The beans, though closely resembling those of the common strain, are much larger. Its strikingly handsome pod combined with its great size are both features of excellence which recommend it. Added to these excellent qualities are those of thrifty, vigorous growth of vine and great productiveness, all making it a variety especially desirable to the market gardener. It easily brings a higher price in the market than any other, and is not excelled by any other sort for the home garden. Pkt. 15 cts., 1 lb. 35 cts., 2 lbs. 65 cts., 10 lbs. or over 27 cts. per lb.

## BEET

An ounce will sow about 100 feet of drill.  
5 or 6 pounds required for an acre.

The beet thrives best in deep, rich, but rather light soil. Sow in drills about 15 inches apart and one inch deep. Make the soil firm over the seed. For early use, sow as soon as the ground can be worked; for fall use, in May; for winter, from the 20th of June to the middle of July, according to the variety. Thin plants to 4 or 5 inches apart. Give frequent shallow cultivation.

**EARLY WONDER.** One of the earliest and most perfectly shaped beets. Its beautiful, deep blood-red color, globular-shaped roots, make it valuable for the home garden. The attractive appearance, uniform size, shape and color have created a very heavy demand for this variety. It is grown very extensively for late sowing. Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.



Ross Perfection

## BEET—Continued

**CROSBY'S EARLY EGYPTIAN EXTRA-SELECTED STRAIN.** For several years we have given this especial attention and have largely succeeded in eliminating the light-colored, coarse fleshed specimens peculiar to the Egyptian. Roots are more uniform in shape and tops are more even in growth and a little smaller. We confidently recommend it to market gardeners as an unsurpassed strain. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

**ROSS PERFECTION.** A strain selected by us as the best early beet for the market gardener. Nearly as early as the Early Egyptian, but the roots are much thicker and more regular in shape. By careful selection the coarse-fleshed and light-colored specimens have been practically eliminated. The tops are even in growth and a little smaller than the Egyptian, making it an ideal beet for all uses. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

**EARLY EGYPTIAN.** The earliest variety; roots flat; deep crimson; top small. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**EARLY ECLIPSE.** An early globe-shaped variety of good quality and deep color. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

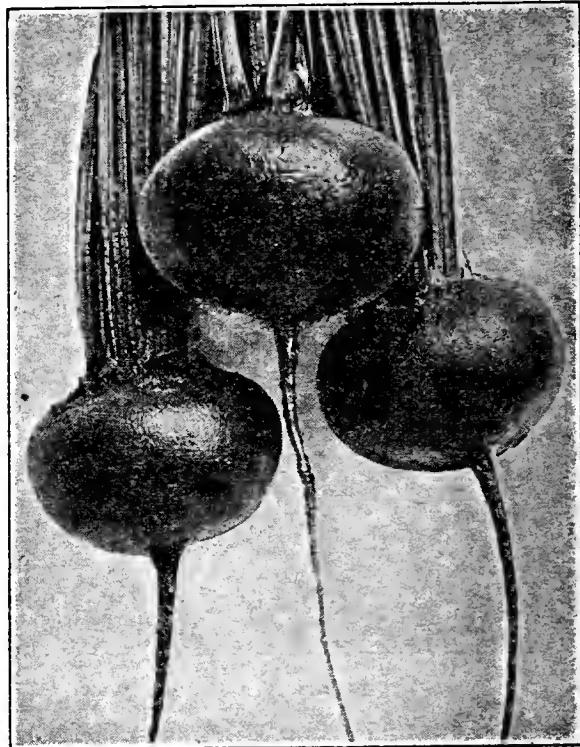
**EDMAND'S BLOOD TURNIP.** A standard variety used for both second-early and main crop. Of good quality and keeps well. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**DEWING'S BLOOD TURNIP.** One of the leading main-crop varieties. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**DETROIT DARK RED.** A superior second-early and main-crop variety rapidly growing in favor for late planting. Tops uniformly small and grow upright so that the rows may be close together. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

**SWISS CHARD, or SILVER SEA KALE BEET.** Used for greens only. Until recently but little used in this country, but for the last few years has rapidly increased in favor. Much superior to other beets for greens. Of very rank growth, plants should be thinned to about one foot apart. When the plants have attained full size, the stems and mid-ribs are sometimes cooked and served like asparagus. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**SWISS CHARD, GIANT LUCULLUS.** The Swiss Chard, or Spinach Beet, is prepared for the table in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which cuttings may be made all summer, as you can cut right down to the ground and new shoots will soon spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large curly leaves, with thick, light-colored mid-ribs which are delicious when cooked and served like asparagus. You should not fail to plant at least one long row in your garden. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**



Selected Crosby's Egyptian

## Sugar Beets and Mangel-Wurzels for Stock Feeding

1 oz. to 100 feet of drill; 5 lbs. per acre

Roots of all kinds are highly valuable for stock feeding and are worth more general cultivation than they have had in the past. A liberal feeding of Mangels insures a large flow of milk and healthy condition of the animals. Fifteen or twenty tons per acre is not an unusual yield for any of the large growing varieties. They are easy to cultivate and can be raised almost wholly with horse culture and will respond readily to any kind of fertilizer. A yield of 20 tons per acre is equal to 2 tons of the best Timothy Hay or 65 bushels of corn, but they will produce more milk, and, in addition to the feeding value found in protein and fat, you also get a large amount of water, which, to our mind, has a feeding value in any of our field crops.

**GOLDEN TANKARD.** It is one of the best stock beets grown. It has yellow flesh, a very distinct variety, being short with very little tap root and very easy to harvest. Top and neck very small; root ovoid, flesh yellow, zoned with white; an excellent sort. **Price, oz. pkt. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**MAMMOTH LONG RED.** This is truly a mammoth, a single root often weighing twenty to thirty pounds. The extra large, long roots are blood-red in color and very nutritious. Enormously productive, yielding, under favorable conditions, thirty to forty tons of roots per acre. **Price, oz. pkt. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**NORBITON GIANT LONG RED.** Similar to the Mammoth Long Red; has smaller top and neck; flesh scarlet. **Price, oz. pkt. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**RIVENHALL GIANT.** This is one of the finest types of the yellow globe mangel in cultivation. The roots are immense size and exceptionally even in shape. The skin is an orange-yellow with a reddish-yellow base. The flesh is white, being firm and fine grain, which renders it an excellent keeping variety. It grows fully three-fourths above ground with a very small tap root which makes it well adapted to light soil. **Price, oz. pkt. 10 cts., 1/4 lb. 25 cts., lb. 75 cts.**

## SUGAR BEETS

**KLEIN WANZLEBEN.** This variety is cultivated on a larger scale than any other Sugar Beet. Root is conical, straight and even, large at top and rapidly tapering. Not as large as some of the other sorts, but contains the largest percentage of saccharine matter. **Price, oz. pkt. 10 cts., oz. 15 cts., 1/4 lb. 30 cts., lb. \$1.00.**

# CABBAGE

An ounce will produce about 3,000 plants

Cabbage will thrive on any good garden soil but is more successfully grown on deep, strong loam, and new soil is much preferable, as on old land the roots are more liable to be affected by the disease called club-root. Especially should land be avoided upon which, within two years, cabbage, cauliflower, turnips or radishes have been grown.

For the earliest crop seed is usually sown in February or March in hotbeds with only moderate bottom heat, and the plants hardened by gradually exposing them to the night air and transplanted as early as the ground is in suitable condition.

## Yellows Resistant Cabbage

The term, "Yellows-Resistant" cabbage seed, does not necessarily imply that this seed is to be planted only in soil infested with the Yellows or Wilt. Our Resistant seed has a very high germination test, and produces a hardier plant, surer producer and yields greater tonnage than ordinary commercial strains.

### DANISH BALLHEAD "YELLOWS RESISTANT."

Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.

## Copenhagen Market

### The Best Early Cabbage

As early as the Charleston Wakefield it fully meets the requirements of earliness expected of an Extra Early variety, while the heads are as large or larger than the Danish Ballhead, averaging in weight about ten pounds. This type is remarkably well-fixed, the heads perfectly ball-shaped, all maturing at the same time. The plant is short-stemmed, the heads being produced only a little above the ground.

Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

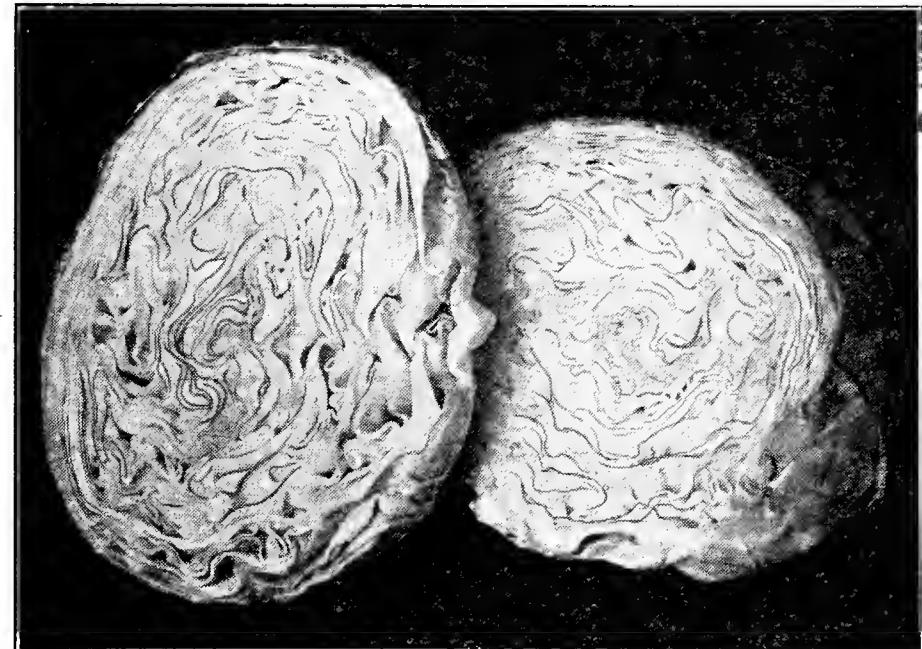
**ALL SEASONS.** For reliability in heading, not surpassed by any other variety, and few equal it in ability to stand the hot sun and dry weather and when mature to remain in the field so long without bursting. Heads as large as most of the later sorts, nearly round or somewhat flattened, solid and of finest quality. Extensively used for both second early and main crop.

Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

### AMERICAN IMPROVED SAVOY.

The best of the Savoy type, which should be more largely grown.

Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.



Copenhagen Market Cabbage

**CHARLESTON EARLY WAKEFIELD.** A favorite with the market gardeners. Resembles the Early Jersey Wakefield in form but is much larger. Matures equally as early. Very uniform in shape and very desirable for the market gardener. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., 1 oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**EARLY JERSEY WAKEFIELD.** Although this variety is not as early as the preceding one, it will be found the very best conical heading sort to come in immediately after. It is very compact, medium size, conical and a sure header.

Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., 1 oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

**DANISH BALLHEAD.** This is now the most popular main crop variety for market, due to its remarkable solidity, weight, uniformity in size, fine keeping qualities and attractive round head. It is especially valuable for shipping to distant markets and for late spring use. Though the heads are but of medium size, owing to their great weight the product of an acre exceeds in weight that of any other variety. We offer a strain of seed which has been proved by repeated trials to be unsurpassed. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., 1 oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**DANISH ROUNDHEAD.** Matures a little earlier than the Danish Ballhead. The heads are nearly round and have a short stalk and are very hard. The inside leaves are white and sweet. It is a healthy variety and able to stand heat and resist disease. The heads, although making quicker growth, are fully as large as Ballhead and equally as good in every way; keeping well during the winter and of excellent quality. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., 1 oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**THE GOLDEN ACRE** matures 10 days earlier than the earliest strain of Copenhagen Market. The Golden Acre begins to form heads as soon as the leaves have reached only the size of a saucer and the growth may be observed from day to day. It matures in only eighty (80) days from date of sowing, and no other cabbage of which we know—including the earliest strain of Jersey Wakefield—has proven quite as early. We believe it to be the earliest cabbage in existence. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 40 cts., oz. 75 cts.,  $\frac{1}{4}$  lb. \$2.50.

**PREMIUM FLAT DUTCH.** An old standard late variety. Head large, flat and solid. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.



Danish Ballhead

## CABBAGE—Continued

**MAMMOTH ROCK RED.** Head larger and more solid than Red Drumhead; reliable in heading. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 1/4 lb. 75 cts.**

**SUREHEAD.** The heads are uniform in size and very hard and firm. They weigh from ten to fifteen pounds each. Is of the flat Dutch type. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 1/4 lb. 75 cts.**

**WARREN STONE MASON.** An improved strain of the old Stone Mason. Previous to the introduction of the Danish Ball-head, the most popular variety in New England for main crop. Earlier and more nearly round than the old strain, of medium size, hard, solid and of excellent quality. Reliable and keeps well. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 1/4 lb. 75 cts.**

**CHINESE CABBAGE, PE-TSAL.** Distinct from the Cabbage of Commerce. Somewhat resembling Cos Lettuce; in fact, sometimes called Celery Lettuce. It can be eaten either as a salad or cooked like ordinary Cabbage. Culture same as late Cabbage. Sow early in July. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 25 cts., 1/4 lb. 75 cts.**

## CARROT

An ounce will sow about 150 feet of drill; 3 pounds to the acre

Modern cooking methods furnish numerous recipes in which Carrots are a most delicious dish. Creamed alone, or in combination with Peas or other vegetables, they meet the approval of the most epicurean taste. They are used extensively in the best restaurants. For home use they are deservedly increasing in popular favor, not only as a table delicacy, but because of their high food value. For stock feeding the nutritive value of Carrots surpasses most other vegetables. Every stock owner should plant at least a small acreage of Carrots to supplement his fodder ration next winter to take the place of grain. In proportion to other costs they furnish very cheap food.

The Carrot thrives best in a light, sandy soil, free from stones, well enriched, and deeply and thoroughly worked. Make the top surface fine and smooth by raking. Sow in drills 14 inches apart and half an inch deep and thin plants to 3 or 4 inches apart. Sow from the middle of April to the middle of June.

**CHANTENAY.** A most excellent medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. **Pkt. 10 cts., oz. 15 cts., 1/4 lb., 40 cts., lb. \$1.25.**



Danvers Half Long

**DANVERS HALF LONG.** A well known rich orange red variety, very smooth and handsome, producing extra heavy crops. An excellent market variety; crisp, sweet and tender. Although the roots are short, they produce as large a bulk as the longer field sorts and are more easily harvested. This variety has yielded 25 tons per acre. We have given this our special attention and offer at this time as good strain of seed as is possible to obtain. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

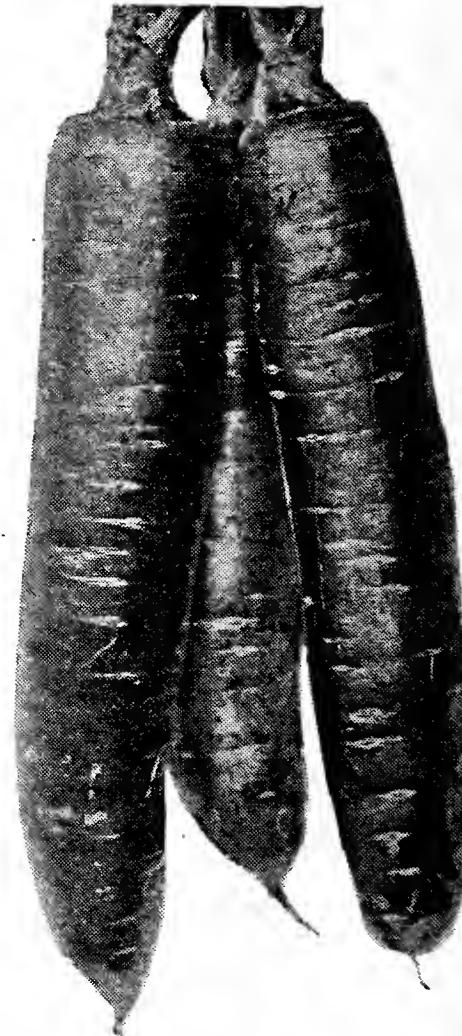
**HUTCHINSON.** Extensively grown by Market Gardeners for box Carrots. This Carrot always commanded the highest price in the market. In color it is a little darker than the Danvers, grows from one to two inches longer, and holds its firmness well down, and is a much heavier cropper. Two Carrots go across the box. You will actually secure 20 per cent more Carrots per acre from this variety than from the Danvers, and the flavor is superior to all other Carrots. We believe our strain is the equal of any. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 60 cts., lb. \$2.00.**

**LONG ORANGE IMPROVED.** The roots of the improved strain of this variety we offer are very deep orange, long and comparatively thick, often twelve inches in length and three inches in diameter at the crown, tapering regularly to a point. The tops are rather large. This intermediate to late maturing sort is suitable for table use as well as stock feeding, combining great productiveness with uniform shape where grown in light, deep, rich soil. When of size suitable for the table, the roots are tender and of good quality. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.15.**

**LARGE WHITE BELGIAN.** Grows one-third out of ground. The portion above ground is green, that below white, large and rather coarse. Used only for stock. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

### Pride of Denmark

A carrot of great promise. It is a cross between the Nantes and Chantenay and resembles the Hutchinson in shape and is of equally good quality. Its bright orange-scarlet color, its size and productiveness are in favor of its becoming one of the leading market varieties. Our trials during the past season would indicate that this variety will be in great demand as soon as its qualities are known. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 60 cts., lb. \$2.00.**



Pride of Denmark

# Cauliflower

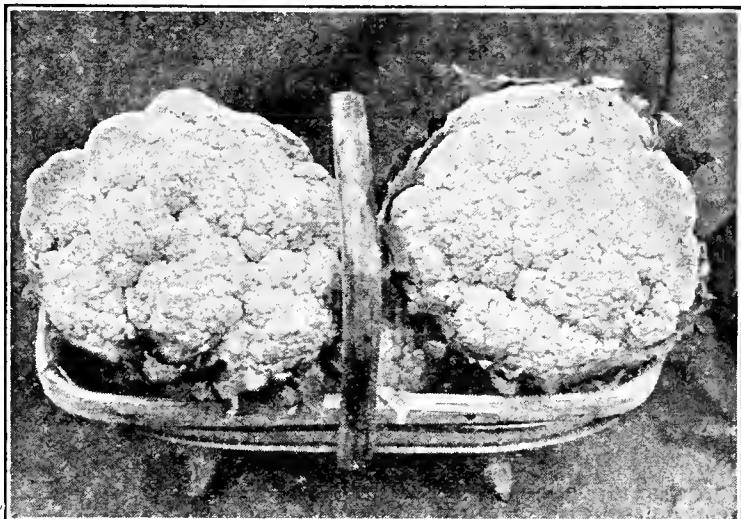
An ounce will produce 3,000 plants

In general, the Cauliflower requires about the same treatment as the cabbage; moist land is, however, more essential and heavier manuring and more frequent cultivation aids to a greater extent the full development of the plant. In this climate the plant heads well only in the cool fall months. Seed should therefore be sown as for late cabbage, from the middle of May to middle of June, the late varieties, however, requiring a little more time than most late cabbage.

**EARLY SNOWBALL.** The earliest and surest to head. Probably more largely used than all others combined. We offer an unsurpassed strain from one of the leading growers in Denmark. Pkt. 20 cts.,  $\frac{1}{4}$  oz. 70 cts.,  $\frac{1}{2}$  oz. \$1.25, oz. \$2.00.

**EARLIEST DWARF ERFURT.** One of the earliest varieties; very dwarf, with large, white, compact heads of finest quality. Excellent for forcing. Pkt. 20 cts.,  $\frac{1}{4}$  oz. \$1.00,  $\frac{1}{2}$  oz. \$1.85, oz. \$3.50.

**EARLY LONDON.** A well-known variety, maturing its head soon after the extra-early sorts. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 45 cts., oz. 75 cts.,  $\frac{1}{4}$  lb. \$2.50.



Snowball Cauliflower (Selected Stock)

# Celery

An ounce will produce about 10,000 plants

It requires about three months from sowing until the seedlings are ready to set in permanent place. For early setting, seed may be sown indoors in shallow boxes or in a cold frame, for later setting early in the open ground. Sow in fine soil, cover lightly and firm soil well with hoe or board. Keep soil moist, until seed germinates, nearly wet. When two or three inches high transplant so plants will be three inches apart each way. Shearing off the tops when plants are four inches high will make them more stocky. As soon as well rooted transplant to permanent location. In the field, plants are set in rows four to six feet apart with plant eight to twelve inches apart in the row. In the garden they are often set much closer. To blanch, draw earth about the plant from time to time, taking care that the tops of the center shoots are not covered.

**EASY BLANCHING.** A distinct sort. Very quick and easy to blanch, has exceptional keeping quality. The plant is of medium height, of great vigor, having thick rather than broad stalks, with shallow ribs. The stalks are very brittle and the flavor extremely spicy. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., 1 oz. 30 cts.,  $\frac{1}{4}$  lb. 85 cts.

**GIANT PASCAL.** A green leaved variety which developed from the Golden Self-Blanching. Very solid and crisp, of the finest quality, stringless, tender and of a peculiarly sweet, nutty flavor. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**GOLDEN SELF-BLANCHING.** The most popular variety for market, easily blanched, very attractive, of good quality though not equal to some of the green celeries. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

**WHITE PLUME.** The earliest and most easily blanched of all varieties, very showy, of good quality. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 85 cts.

**WINTER QUEEN.** Of medium height, but stout, thick, and heavy, with a larger amount of heart than most other sorts. Of fine quality, more easily handled than the Giant Pascal, and an excellent keeper. One of the best for late winter use. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 85 cts.

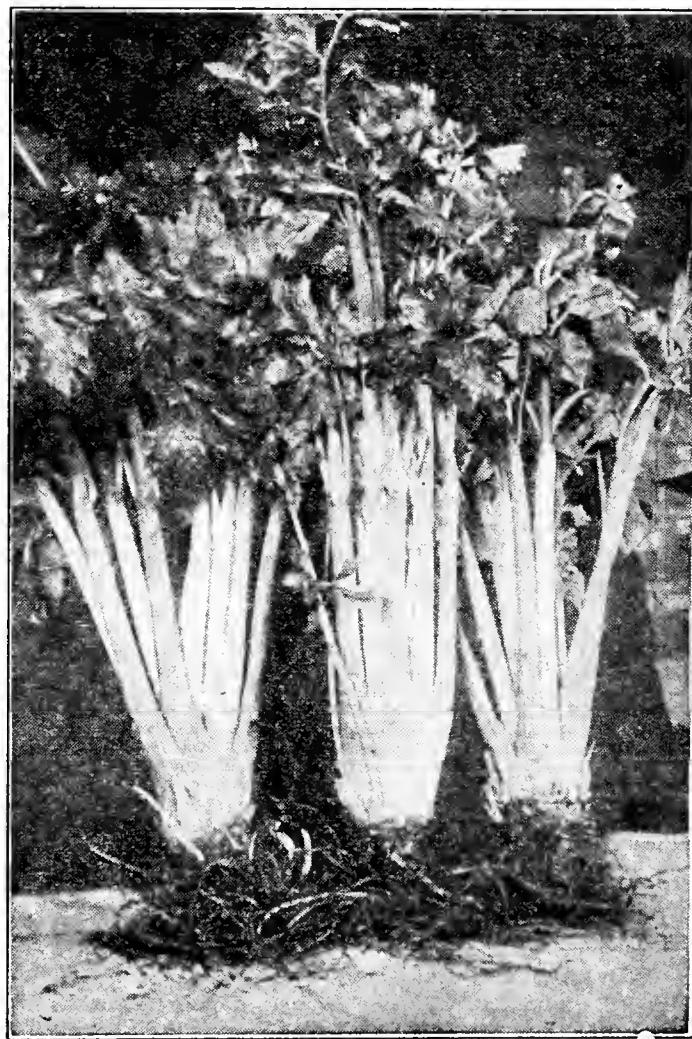
## Celeriac—Turnip Rooted Celery

Sow seed and treat in first stage of growth as directed for celery. Set in rows 2 feet apart and 6 inches apart in the row. As the roots only are used, no banking is necessary. When roots have reached a size of 2 inches in diameter they are ready for use. These are boiled, sliced and eaten with vinegar. To keep through winter, roots should be packed in moist sand or earth.

**LARGE SMOOTH PRAGUE.** An improved sort with nearly round roots which have but few side roots. Pkt. 10 cts., oz. 25 cts., 2 oz. 45 cts.,  $\frac{1}{4}$  lb. 80 cts.

## Chervil Curled

A hardy annual, used for flavoring and garnishing. It is thought by some to exceed even parsley in beauty. Seed should be sown early in the spring and when plants are well-rooted, transplant to one foot apart. The leaves will be ready for use in seven to ten weeks from planting. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 80 cts.



Giant Pascal Celery

Germination on Any Seed Sent on Request,  
Also Purity on  
Grass Seeds, Clovers and all Field Seeds

# Cucumber

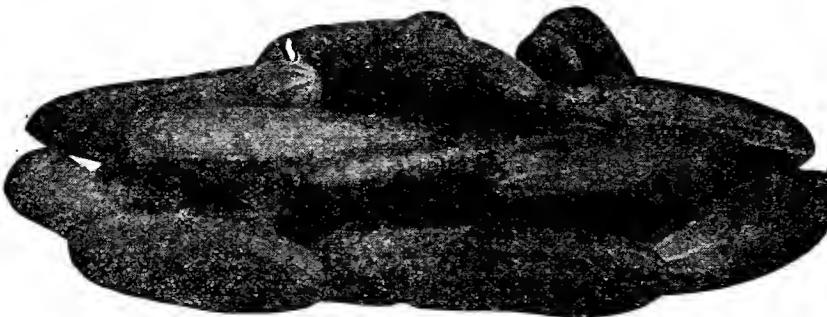
An ounce will plant about 50 hills. 1½ to 2 pounds to the acre

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills 3½ to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slacked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

## Davis Perfect

Fine length, slimness, beautiful dark green color, transparent-like flesh with deliciously cool refreshing flavor, and enjoyable crispness, are distinguishing features and qualities of this, the most popular of the extra long white spine cucumbers. For indoor, and outdoor planting it is most popular. Its extremely vigorous growth makes it the best blight resister of the longer sorts. **Pkt. 10 cts., oz. 20 cts., ¼ lb. 50 cts., 1b. \$1.50.**

**BOSTON PICKLING.** For pickling this variety is superior to all others. Its fruit is short, pointed at each end, bright green, uniform in size, very productive and of superior quality. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**



Improved White Spine

**JAPANESE CLIMBING.** Vine very vigorous with especially strong grasping tendrils. Fruit of good size and quality. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

**LONG GREEN.** An old standard variety, very popular for home gardens but little used for market. Fruit very long, slender, very firm and crisp, uniformly dark green; makes fine pickles and is the best of all when ripe for making sweet pickles. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

## Corn Salad, *Letticus*, or Lamb's Lettuce

A hardy, rapid-growing plant, often used in winter as a substitute for lettuce and is sometimes cooked and used like spinach. It does not thrive in hot weather and if sown in the spring it should be very early and on extremely rich soil. It will then be ready for use in four to six weeks. It, however, succeeds best when sown in August or September. If sown in the former, it will be ready for use in the late fall. If left in the ground during winter, it should, on the approach of cold weather, be protected with straw or litter. **Pkt. 10 cts., oz. 30 cts., 2 ozs. 55 cts., ¼ lb. \$1.00.**

We send one pound or less postpaid; for larger quantities by parcel post, postage must be sent. See inside front cover.



Early Fortune

The most uniform and best colored Cucumber of recent introduction.

**EARLY FORTUNE.** The plant is early, very vigorous, with an exceptionally heavy, thick foliage and is almost disease resistant and very productive. Fruits are uniformly nine inches long, slightly tapering toward each end, perfectly round and of a very rich dark green color which does not fade in shipping; flesh very thick, firm and crisp, and with an exceedingly small seed cavity. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

**EARLY CLUSTER.** Early and productive. Fruit small, dark green, borne in pairs or clusters, largely near the root. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

**EARLY RUSSIAN.** The earliest and hardiest variety. Fruit 3 to 4 inches long. Vine vigorous and productive. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

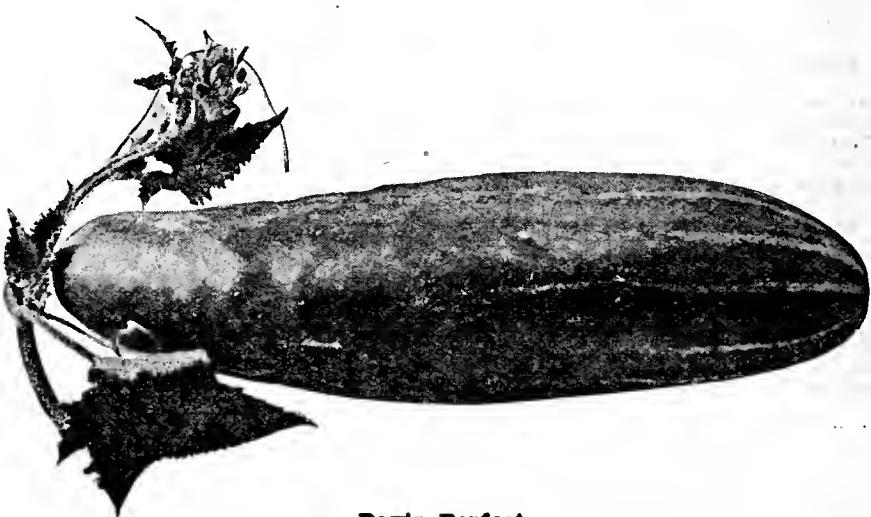
**EXTRA LONG, or EVERGREEN WHITE SPINE.** A distinct and superior strain of this popular type. Fruit long, cylindrical, dark green, crisp and tender. Vine productive and comes into bearing soon after the Early White Spine. Popular with market gardeners. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

**IMPROVED WHITE SPINE.** Perfection has been attained in this grand improvement in the White Spine family. It is early, prolific and produces a continuous crop of uniformly large and symmetrical fruits of an intensely rich deep green color, faintly marked with light yellowish shading toward the tip. It runs very close to type. **Pkt. 10 cts., oz. 15 cts., ¼ lb. 40 cts., 1b. \$1.25.**

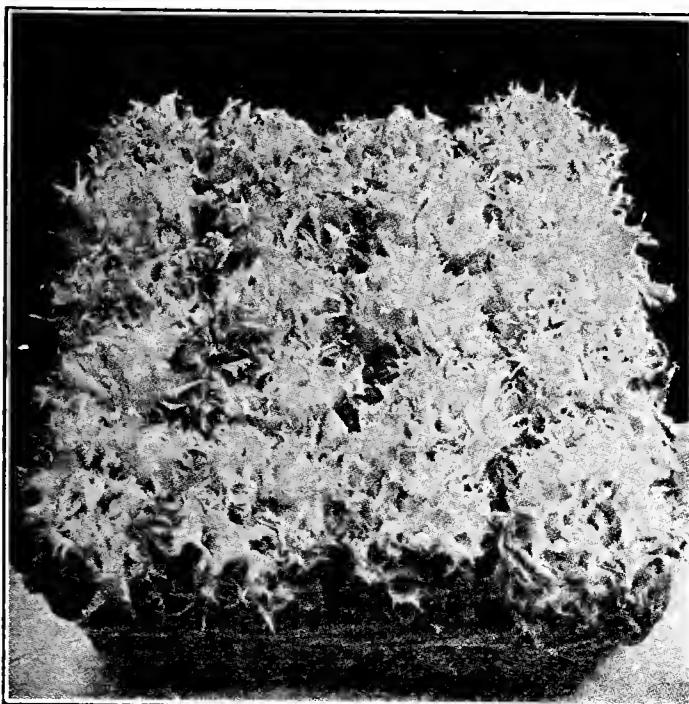
## English Frame Variety

For forcing in hotbeds and greenhouses

**TELEGRAPH.** The most valuable variety of this class, superior for market. **Pkt. 50 cts.**



Davis Perfect



Endive Batavian Broad Leaf

**WHITLOOP, or FRENCH ENDIVE.** Esteemed as a salad plant. Spring-sown seeds produce parsnip-like roots by November. Cut the leaves off  $1\frac{1}{2}$  inches from the neck, trench  $1\frac{1}{2}$  inches apart, cover with soil 8 inches over crown; then place a 2 or 3 foot layer of fresh manure which induces new growth of blanched leaves folded like Cos Lettuce, which are eaten raw as salad. **Pkt. 10 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 85 cts.**

### Chicory

**CHIVES.** Are a small, hardy perennial plant resembling onion in appearance and grow in clusters. They are grown for the leaves, which are produced freely from early spring and give a mild onion flavor to sausages, salads and soups. They can be easily grown in pots at a sunny window during the winter. **Pkt. 18 cts.,  $\frac{1}{4}$  oz. 40 cts., 1 oz. 75 cts.**

### Chives

**Collards.** (One oz. for about 5,000 plants) Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage. **GEORGIA.** The most satisfactory variety for general use. **Pkt. 10 cts., 1 oz. 25 cts.**

### Collards

**Dandelion.** An ounce will sow 200 feet of drill. Two pounds to the acre. Sow early in the spring in rich soil in drills 15 to 18 inches apart, cover lightly but make the earth firm.

**IMPROVED THICK-LEAVED, or CABBAGING.** A distinct variety unsurpassed in thickness of leaf and deep green color. It grows compactly, forming a regular upright tuft. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts., 1 oz. 55 cts.,  $\frac{1}{4}$  lb. \$1.75.**

**CULTIVATED, or FRENCH COMMON.** A greatly improved strain of the common Dandelion. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 85 cts.**

**CICCORIA CATALOGNA, or ITALIAN DANDELION.** **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.**

### Dill

An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It possesses medicinal properties but its largest use is for making Dill pickles. Plant branching, two to three feet high; leaves very much cut into thread-like segments. **Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.**

### Endive

An ounce will sow 300 feet of drill, producing from 2,000 to 2,500 plants. Endive, like lettuce, may be grown at any season, but is more generally used in the fall. For early use, sow in April, for later, until July, in drills 18 inches apart, or in beds for transplanting, plants should stand 10 to 12 inches apart in the row. When nearly full grown tie outer leaves over center to blanch the heart, or blanch with boards as with celery.

**MOSS CURLED.** Of dense growth and finely curled. **Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.**

**LARGE GREEN CURLED.** Of larger growth, not so much curled as preceding. **Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., 1 lb. \$1.50.**

**BATAVIAN BROAD LEAVED (Escarole).** A variety having broad, more or less twisted and waved bright green leaves with thick, nearly white mid-ribs. The inner leaves form a fairly solid, clustering head which blanches a beautiful deep creamy white and is crisp, tender, and of fine flavor. Unsurpassed for salads. **Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., 1 lb. \$1.50.**

### Fennel (Finocchio)

**(FLORENCE, or NAPLES.)** Resembles Celery in flavor, but has a sweet taste and delicate odor. Should be sown in Spring in drills 18 inches apart and the plants thinned to 5 or 6 inches apart. **Pkt. 10 cts., oz. 50 cts.,  $\frac{1}{4}$  lb. \$1.50.**

### Cress, Curled or Pepper Grass

A small pungent salad plant, much liked by some with lettuce. Like all salad plants, it should be grown on rich ground. Seed may be sown early in the spring, but if desired through the summer, repeated sowing will be necessary. **Pkt. 10 cts., oz. 20 cts., 2 oz. 35 cts.,  $\frac{1}{4}$  lb. 60 cts.**

### Water Cress

**WATER CRESS.** Hardy plant which can be grown in a pond or along the banks of a running stream. Largely used as a garnish during the winter and early spring months. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.,  $\frac{1}{4}$  lb. \$2.00.**

### Egg Plant

An ounce will produce about 2,000 plants.

The Egg Plant, like all sub-tropical plants, requires, for both germination of seed and vigorous growth of plant, a high temperature. The seed is slow in germinating, and should be sown about the first of April. When the young plants show two rough leaves, transplant 3 to 4 inches apart, and when settled warm weather comes, set in rich, warm soil,  $2\frac{1}{2}$  to 3 feet apart each way.

**BLACK PEKIN.** An early variety, nearly round, large, smooth, black and glossy. Plants prolific, leaves purplish black. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. 55 cts.**

**NEW YORK IMPROVED (Spineless).** The favorite variety. Fruit of largest size, rich purple and finest quality. Plant large, spreading and very productive; foliage light green. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 30 cts., oz. 50 cts.**

**BLACK BEAUTY.** A valuable variety, ready for use two weeks earlier than any other sort. The fruit is thick and of a rich purplish-black color. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. 50 cts.**



New York Improved Egg Plant

### Kohl Rabi

An ounce will sow about 200 feet of drill

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip. Seed should be sown in light rich soil as early in spring as possible, in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather; when they fail to grow well. Planting may be made the latter part of July for fall use.

**EARLY WHITE VIENNA** (Extra for forcing). This variety is extremely early with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 85 cts.**

**EARLY PURPLE VIENNA.** Very early, with small top, the leaf stems being tinged with purple. Bulbs of medium size, purple, flesh white. Desirable for forcing and early outdoor planting. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 85 cts.**

### Leek

Leeks require rich soil. Sow early in spring in deep drills, eighteen inches apart, but cover with but one-half inch of soil, thin plants to about eight inches apart and as they grow gradually fill the drill and draw the earth around them as with celery. Or if very tender and white leeks are desired, sow in bed and transplant when plants are six inches high into trenches six or eight inches deep and as they grow gradually fill the trench and later draw the earth around them so that it will be two or three inches above the level.



Leek



Kale, Dwarf Green Curled Scotch

**AMERICAN BROAD FLAG.** A desirable strong growing, broad leaved leek, hardy and productive. It is a favorite with many market gardeners and is also extensively used for the home garden. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 85 cts.**

**GIANT MUSSELBURGH.** A very hardy variety of extra-large size; the leaves are fan-shaped of a dark green color, the edible stem is 6 to 8 inches long and 3 inches in diameter. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 85 cts.**

## KALE or BORECOLE

An ounce will produce 2,000 plants

**DWARF CURLLED SCOTCH.** For early use, sow in May and transplant in June, and treat generally as for cabbage. One of the best plants grown for greens. This is a finely curled, low growing variety, the leaves of which when properly cooked make very palatable greens. The plant is very hardy, the leaves are long, and of an attractive bright green color. This sort is also very often used for garnishing. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts.**

## LETTUCE

An ounce will produce from 3,000 to 4,000 plants

Lettuce thrives on nearly all soils, but because the growth should at all times be rapid to insure crispness and best flavor, the soil should be heavily enriched and well worked before planting. Lettuce being quite hardy, seed may generally be sown as soon as ground can be fitted, as while prolonged or continued freezing will kill the plants, they are but little injured by an ordinary frost. Seed may also be sown in the hotbed in gentle heat, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground very soon after the time suggested for sowing seed outdoors.

### General Crop, Heading and Loose Leaved Varieties

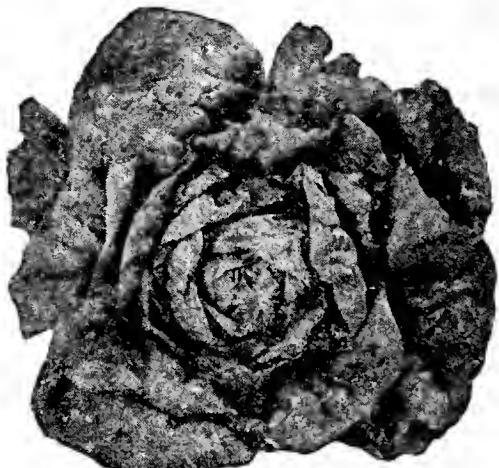
**BELMONT FORCING.** This is a plain-leaved variety. It forms a compact head and is, like the Tennisball, almost certain to head, making it a desirable and profitable variety for forcing. **Pkt. 10 cts., 1/2 oz. 40 cts., oz. 75 cts., 1/4 lb. \$2.50.**

**BIG BOSTON WHITE SEEDED.** Probably the most generally used in cultivation. It is a cabbage head, butter type, medium large, finely shaped, globular, medium light green with slight tinge of brown on margins of outer leaves. It is early and hardy and stands shipping well. The leaf is smooth and practically not blistered or savoyed, with a tendency to a bright sheen. The head itself is brittle, buttery and the interior quite a golden yellow. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

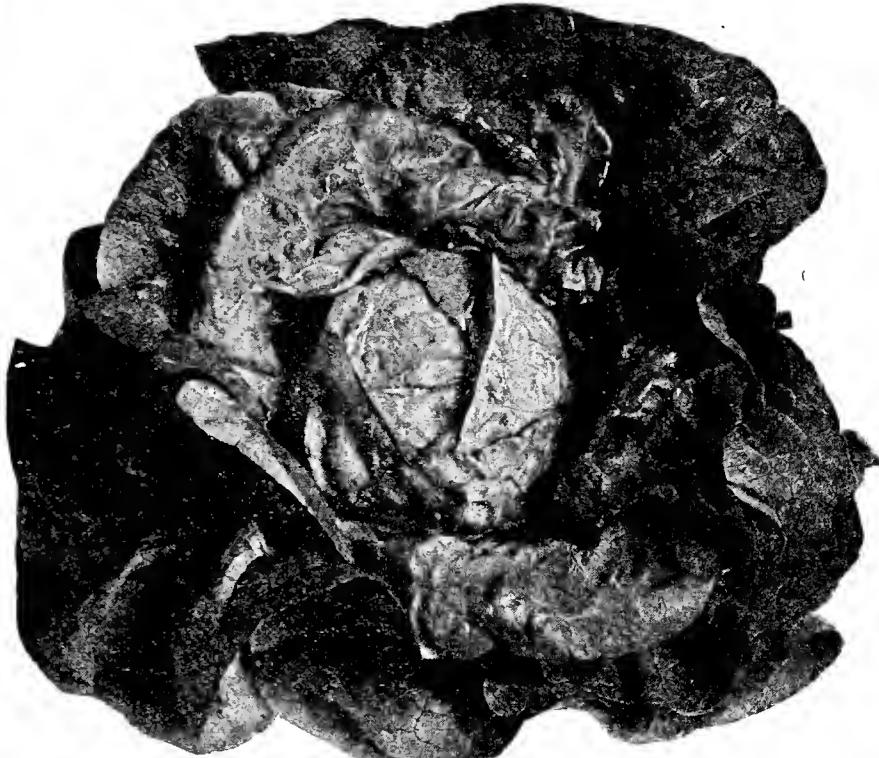
**GREEN-LEAVED BIG BOSTON.** A cabbage butter head; medium size; medium green. Is practically the same as Big Boston with no tinge of brown and the head is of a whitish green. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**BLACK-SEEDED TENNISBALL.** More extensively grown in New England than any other variety, both for first outdoor crop and for main crop, the medium sized heads being the size most liked by gardeners, while its compact form allows it to be grown more closely together than others. Leaves plain, thick, dark green; blanches to a rich creamy white inside. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**BLACK-SEEDED SIMPSON.** Much larger than the preceding, but not so much curled. Forms a large, loose cluster of leaves rather than a head; leaves light yellowish green. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**



Lettuce, May King



Black-Seeded Tennisball

**ICEBERG.** The unusual solidity of the heads is insured by the large white main ribs of the leaves, each of which curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is consequently thoroughly blanched. The leaves are always crisp and tender. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**MAY KING.** A new, very hardy variety of foreign origin, which owing to its hardiness, earliness and large size for a variety of this class, is coming rapidly into favor here, both for outdoor planting and for forcing. Forms compact heads, nearly, if not quite, as early as White seeded Tennisball. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**NEW YORK or WONDERFUL (Dark Iceberg).** One of the largest varieties in cultivation. The heads are very solid with but little tendency to run to seed. It blanches itself naturally, is crisp, tender, and of excellent flavor, and always free from bitterness. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**PRIZE HEAD.** A large, loose-leaved variety, which has been very popular for home use. Leaves very thin, crimped, bright green tinged with brownish red; sweet, tender and of good flavor, but not equal to Crisp as Ice. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**SALAMANDER.** A large, compact head of good quality. Leaves light green, broad, thick, somewhat crumpled, closely overlapping so that inside they blanch to a creamy white. Withstands heat remarkably. One of the best varieties for midsummer. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**WHITE-SEEDED TENNISBALL, or BOSTON MARKET.** An old and popular variety for forcing; heads small and compact. Not suitable for outdoor planting. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

### Romaine or Cos Varieties

These are distinct from the ordinary lettuce, and much liked on account of their tender, crisp leaves and delicious flavor. The leaves are long and narrow and need to be tied up when they soon form solid heads and bleach snow white.

**EXPRESS COS.** A fine dwarf early sort requiring no tying up. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 30 cts., 1/4 lb. 65 cts.**

**PARIS WHITE COS.** One of the finest varieties for summer use. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 30 cts., 1/4 lb. 65 cts.**

**TRIAGON COS.** Similar to above but grows whiter and matures earlier. **Pkt. 10 cts., 1/2 oz. 15 cts., oz. 30 cts., 1/4 lb. 65 cts.**

## Mustard

Used mainly for salads but is sometimes boiled for greens. Sow as early as ground can be worked in drills eighteen inches apart and one-half inch deep. If desired throughout the season, successive sowings should be made about every three weeks.

**WHITE, or YELLOW.** The common variety. The seeds are often used to flavor pickles. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 50 cts.**

**SOUTHERN GIANT CURLED.** Large, light green leaves, much crumpled at the edge. The best for salads. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 50 cts.**

## Lettuce

**BOSTON FINE CURLED.** Beautifully curled, excellent for garnishing. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**CRISP AS ICE.** A midsummer variety, surpassing all of this class in crispness, tenderness and fine flavor. Forms large solid heads, with leaves crimped and curled, those outside being variegated dark green and bronze, the inner portion blanching to a rich creamy yellow. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**EARLY CURLED SIMPSON.** (White-seeded.) An old variety, with broad, often frilled very curly light green leaves; sweet, tender of fine flavor. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**GRAND RAPIDS.** Without doubt this is one of the easiest varieties of lettuce to grow. It forms no head but produces an abundant crop of pale green leaves, slightly but closely crumpled which have an excellent flavor. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**

**HANSON.** An old variety of great merit. Forms a large flat, cabbage-like head, very slow to run to seed. The outer leaves are bright green, with veins of lighter shade, inner leaves white, usually curved and twisted at the base. A very attractive variety of excellent quality and extensively grown for home use. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 30 cts., 1/4 lb. 75 cts.**



Paris White Cos Lettuce

## Muskmelon

An ounce will plant about 50 hills.  $1\frac{1}{2}$  to 2 pounds are required for an acre.

The Muskmelon succeeds best in warm, rich soil. Plant when all danger of frost is past, in broad hills 4 to 5 feet apart, 10 or more seeds to each hill. Cover with one inch of soil and firm well with the hoe. If young plants are attacked by insects, dust them with air-slack lime or ashes mixed with twice as much road dust. Use this frequently but sparingly, as a large quantity at one time is liable to injure the plants. When all danger from insects is past, thin to three plants to the hill.

**BENDER'S SURPRISE.** (The Bender Melon)—A very popular variety in the east, particularly around Albany, N. Y. A selection from Surprise and a close kin to Irondequoit, differing from that variety in being more oblong, more full and rounded at the ends, not quite as well netted or as early; skin light greenish-yellow when ripe. A very delicious, large salmon-fleshed melon with superior shipping and keeping qualities. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**BURRELL'S GEM.** The melons are six to seven inches long by four and a half to five inches in diameter, rather sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon-colored flesh, sweet and tender. The flesh is thick and firm, ripening close to the skin, leaving only a thin rind. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**EMERALD GEM.** Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**EXTRA-EARLY HACKENSACK.** Above medium size, nearly round; flesh green, a little coarse but juicy, sweet and of good flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**HONEY DEW.** The average size of the melon is six inches in diameter and seven to eight inches in length. The flesh is an emerald green, very thick, melting, and fine grained; can be eaten to the extreme rind. The seed cavity is very small, the rind impervious to water. The melon does not shrink in weight, is not easily bruised, and is a splendid shipper. It is later than Rocky Ford strains and is very prolific. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

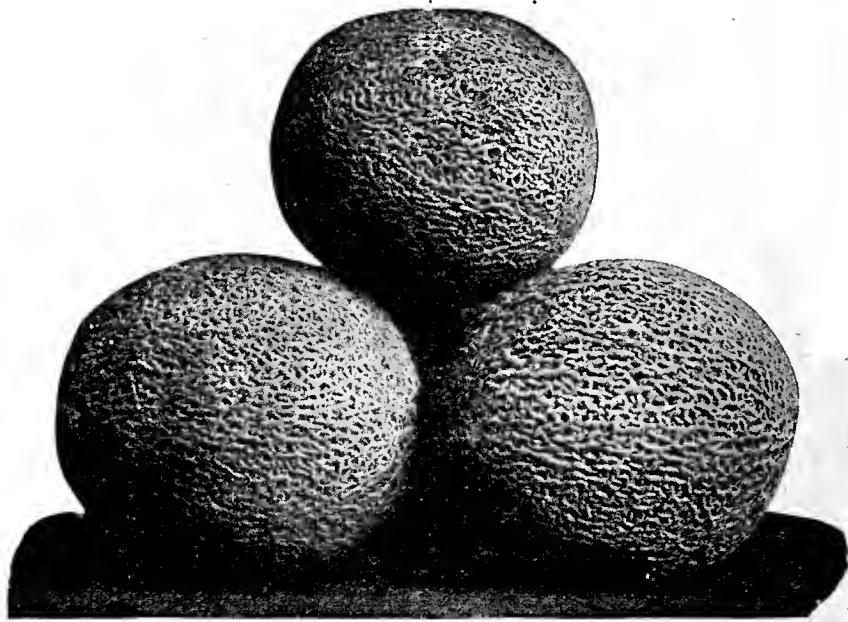
**IMPROVED GREEN NUTMEG.** Large, round, flattened at both ends. Ribbed and covered with coarse netting, flesh thick and of fine flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**MONTRÉAL NUTMEG.** The fruits are of the largest size, often attaining a weight of 15 pounds. Shape nearly round, flattened at the ends. The flesh is about two inches thick, light green, and of a delicious flavor. This variety commands high prices in the Eastern markets during the Fall months. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**OSAGE, or IMPROVED MILLER'S CREAM.** Of medium size, oval, dark green, shallow netting; flesh deep salmon, thick, very firm, sweet and of rich flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**PAUL ROSE, or PETOSKEY.** The product of crossing the Osage and the Netted Gem. Resembles the latter, but is a little larger, and flesh is rich orange. Very sweet and high flavored. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**ROCKY FORD.** More largely grown than any other of the small or basket melons. Oval, slightly ribbed, densely covered with fine netting; flesh green, thick and of rich flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.



Rocky Ford



Kleckley's Sweet

## Watermelon

An ounce will plant about 25 hills—  
4 pounds to the acre

The culture of the Watermelon is mainly the same as recommended for the Muskmelon, hills should, however, be about 10 feet apart.

**COLE'S EARLY.** Small but very early; of fine quality and sure to mature in any latitude where melons can be grown. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**HALBERT HONEY.** A variety which rivals the Kleckley's Sweet in quality, while the vine is more productive. Fruit of medium size, blunt at both ends, deep glossy green; rind very thin; flesh crimson, entirely free from fibre, rich, sweet and melting. Unsurpassed for home use. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**HARRIS' EARLIEST.** A new extra-early variety, large, and of exceptionally fine quality. Slightly oval, mottled in stripes of light and dark green. Flesh bright red. One of the most desirable for planting in the North. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**IRISH GREY.** A long melon, rather large in size and is becoming more popular as a shipping kind. The rind is light green in color; the seeds are white and its eating qualities very fine. Average weight is 25 pounds. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**KLECKLEY'S SWEET, or MONTE CRISTO.** One of the sweetest, above medium size; dark green; rind thin; flesh bright red. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

## Watermelon

**MOUNTAIN SWEET.** An old favorite, early, productive and of good quality. Fruit long, dark green; flesh scarlet. **Pkt.** 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

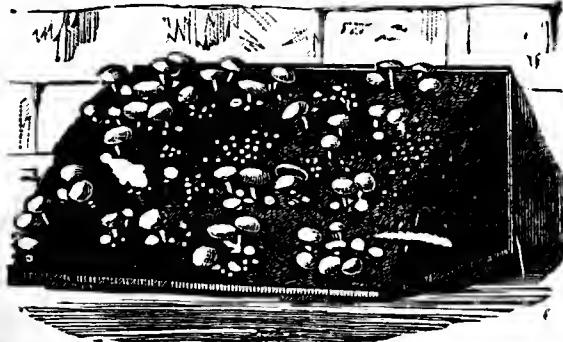
**PEERLESS, or ICE CREAM.** Of medium size, oval, dark green; flesh scarlet, very sweet. **Pkt.** 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**PHINNEY'S EARLY.** A standard early variety of medium size, oval marbled light and dark green; flesh pink, sweet and crisp. **Pkt.** 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**SWEETHEART.** Large, oval, very heavy; rind thin but firm mottled light and very light green; flesh bright red, tender, melting and sweet. Retains its good qualities for a long time after ripening. **Pkt.** 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

**CITRON.** For preserving only. **Pkt.** 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts.

## Mushrooms



Mushrooms

Cultural directions, to be of any value, would be too lengthy to give here, but we will forward full directions for the planting and culture of spawn with each order.

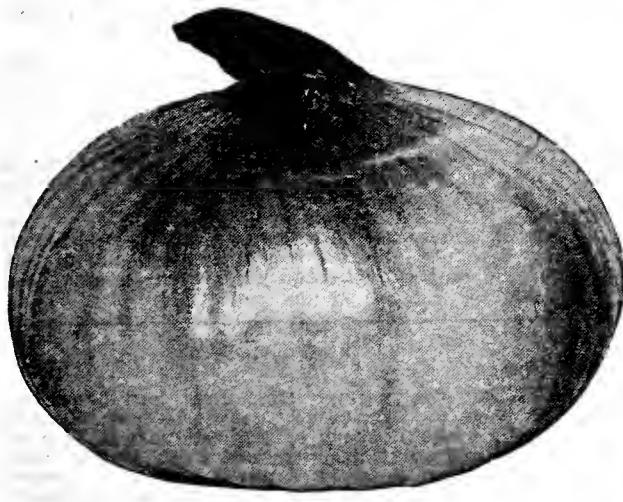
**LAMBERT'S PURE CULTURE SPAWN.** This will produce Mushrooms of a specific variety, selected with reference to size, color and yield, and eliminates absolutely any danger of poisonous specimens. Standard bricks weighing from 1 to  $1\frac{1}{4}$  pounds, of the variety most largely cultivated. 35 cts. each. Postpaid, 45 cts. each; 4 bricks, by express, \$1.30.

## Okra or Gumbo

The young seed pods are used in soups or stewed and served like asparagus. Much esteemed in the South. In the North requires an especially warm location and probably best results would be obtained by sowing seed in the hotbed. Set plants in rows two feet or more apart and about a foot apart in the row. The seeds are a long time in germinating.

**DWARF GREEN.** Early and productive; best for Northern cultivation. **Pkt.** 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**PERKIN'S MAMMOTH LONG POD.** A dwarf but enormously productive variety. Pods long, slender, deep green and remain tender much longer than most sorts. **Pkt.** 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.



Red Wethersfield

## Onion Sets



Yellow Onion Sets

We do not deliver Onion Sets free; purchaser pays transportation. Onion Sets weigh 1 lb. per quart. For Faroel Post zone rates see inside front cover.

Onion Sets require rich soil and with the exception of the Egyptian, early planting. Rows should be the same distance apart as suggested for onions grown from seed, and sets should be planted from 2 to 4 inches apart, and only lightly covered with earth, the top of set just below the surface, with

any growth it may have made above. Culture same as of onions from seed.

**WHITE GLOBE.** Lb. 25 cts., 4 lbs. 80 cts., 8 lbs. \$1.40.

**YELLOW GLOBE.** Lb. 25 cts., 4 lbs. 80 cts., 8 lbs. \$1.40.

**EGYPTIAN, or PERENNIAL.** (For Delivery in September.) Lb. 25 cts., 4 lbs. 80 cts., 8 lbs. \$1.40.

Special prices on bushel lots.

## Onion

An ounce will sow about 200 feet of drill. 4 to 5 pounds to the acre. The Onion usually thrives best on old, rich land, but can be profitably grown only on such as has been kept free from weeds. If stable manure is used, it should be either well rotted or plowed into the soil the previous fall. As manure always contains more or less weeds, many large growers use nothing but commercial fertilizer. The soil should be worked until manure or fertilizer is thoroughly mixed with it and the surface made fine and even by raking. Sow as early as ground can be prepared, in rows 12 to 14 inches apart, one-half inch deep, and make soil firm. Keep free from weeds, especially at first, for if the weeds once get ahead of the young plants it is almost useless to continue cultivation—the land would better be plowed and replanted with some other crop.

**AILSA CRAIG.** Of mammoth size, larger than the Prizetaker, oval-shaped, pale straw-colored skin; of very mild flavor. One of the best for exhibition on account of its enormous size. In England the most popular large onion. Bulbs have been grown that weighed  $2\frac{1}{2}$  pounds. Extra large onions can, however, be obtained only by sowing seed early in the spring in the hotbed and transplanting to the open ground when plants are of sufficient size. Seed from English Prize-winning stock. **Pkt.** 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. 90 cts.

**SOUTHPORT YELLOW GLOBE.** Bulbs nearly spherical, slightly elongated; does not mature quite so early as our selected strain of Yellow Globe Danvers, a little more inclined to grow stiff-necked on some soils or in unfavorable seasons, but when well-grown brings the highest price, especially in New York markets. **Pkt.** 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 60 cts.

**SOUTHPORT RED GLOBE.** Identical in form with the preceding; rich, deep red, above medium size; an excellent keeper and one of the most attractive of all. **Pkt.** 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 80 cts.

**SOUTHPORT WHITE GLOBE.** Of true globe shape. Later than White Portugal; keeps better and, like all globular varieties, a greater weight can be obtained on the same area. **Pkt.** 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. 90 cts.

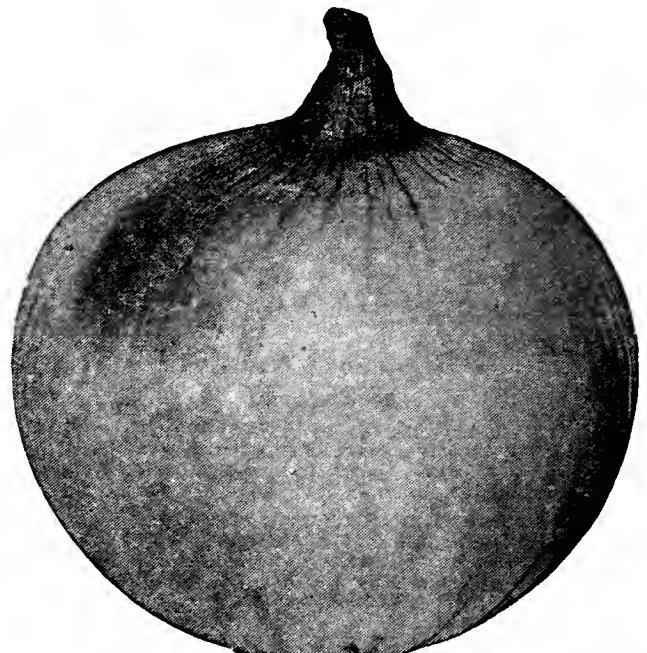
## Onion—(Continued)

**YELLOW GLOBE DANVERS.** This is an old favorite—the standard variety for winter use in the Eastern markets. It produces well-ripened bulbs, averaging two inches in diameter and nearly globe shaped. The skin is a light golden brown or pale yellow, and the flesh is pure white, crisp, and mild in flavor. The plants have very slender necks, and consequently the bulbs keep well over winter. They ripen up uniformly, which characteristic recommends the variety to market growers. Although not quite so truly globe shaped as the Southport Yellow Globe Onion, they are somewhat earlier. On account of their attractive shape and color and their excellent keeping qualities they always bring a good price in the markets. Selected Strain. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 75 cts., 1 lb. \$2.75.

**WHITE PORTUGAL, or SILVERSKIN.** An early white, flat variety, of medium size and mild flavor. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. 90 cts.

**LARGE RED WETHERSFIELD.** The standard red variety. Bulb large, flattened but thick; skin deep purplish red. The best of all for light soils. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 75 cts.

**PRIZETAKER.** Of the largest size, form nearly globular; skin thin, light straw-color. Quite certain to bottom, but is later in maturing than any of the preceding, and though fine bulbs are often obtained from seed sown in the open ground in favorable locations, the largest and finest bulbs are grown from seeds sown in a hotbed and the plants set in the open ground when about six inches high. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 75 cts.



## Parsley

One ounce will sow 200 feet of drill

**CULTURE**—Parsley thrives in rich, mellow soil and, owing to the very slow germination of seed, succeeds best when seed is sown as early in the spring as ground can be worked. Sow in drills, one-half inch deep, 14 to 16 inches apart, and when well up thin plants to 8 inches. It may be cut when 3 or 4 inches high, and if soil is of the required richness will afford several cuttings during the season. The Moss Curled is perhaps slightly more curled, while the Double Curled is claimed by some to be the more productive of leaves and to better withstand dry weather.

**CHAMPION MOSS CURLED.** This is a prize winning English variety, very distinct. It makes remarkably handsome, compact plants and its leaves have the appearance of finely curled moss. The plant is quite hardy and very slow to run to seed. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**DOUBLE CURLED.** Plants compact, very curly and finely cut; bright green color. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**PLAIN LEAF.** The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardiness of plant. The curled sorts are more extensively used for garnishing. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

Yellow Globe Danvers Onion

## Parsnip

One ounce will sow 200 feet of drill, 6 pounds are required for an acre

**CULTURE**—The Parsnip thrives on any soil which is deep, mellow and moderately rich, but best on that which is rather light or sandy. Avoid the use of fresh manure, as, when used, roots are more inclined to be coarse, spongy and ill-shaped. Seed germinates slowly, should be sown fairly early and immediately after ground is prepared—that is, before the soil has become dry. Sow in rows 18 inches apart, cover with one-half inch of soil and make latter firm by rolling or with back of hoe. Thin plants to three inches apart.

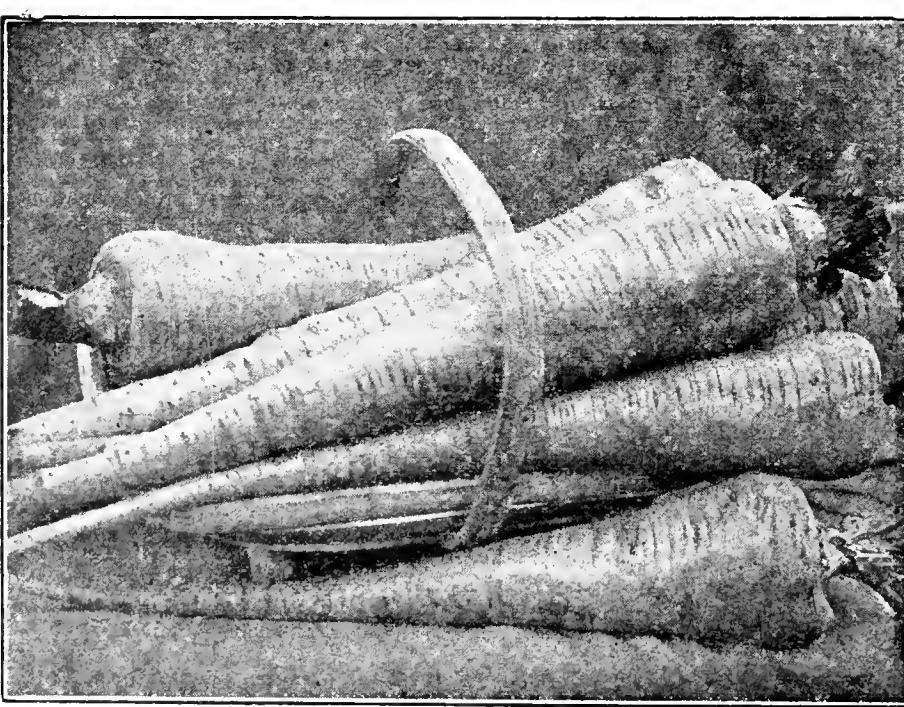
Of each variety we offer a choice selected strain. Each pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts.

**ARLINGTON LONG SMOOTH.** Roots very long and smooth, with full crown, desirable for deep soil and, owing to the full crown, is less liable to rot if left in the ground through the winter than the Hollow Crown.

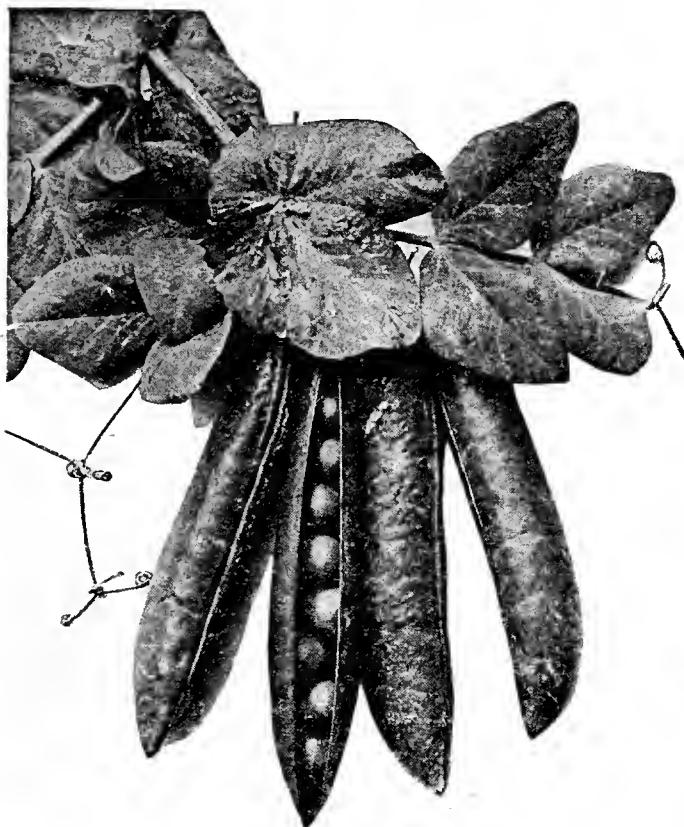
**HOLLOW CROWN.** Roots of medium length, thicker at the top or shoulder than the preceding; succeeds better on shallow or stiff soil; crown slightly depressed; does not, on this account, keep so well in the ground through the winter as the Arlington Long Smooth, but is more easily harvested and more extensively grown.

## Peanuts

**SPANISH.** For a long time this has been the best variety. An early, heavy bearer; bushes growing close, so very easily cultivated. Grains or nuts are smaller, but more sweeter and finer flavored than the larger sorts. Best recleaned seed stock. Pkt. 10 cts., lb. 40 cts., postpaid. By express, 10 lbs. or more 35 cts. per lb.



Hollow Crown Parsnip



Extra-Early Blue Bantam

INOCULATE THIS  
SEED WITH  
STIMUGERM

## GARDEN PEAS

**One pound will plant about 100 feet, 70 to 85 pounds an acre.**  
Peas of the extra early, smooth class are the very first thing to be planted in the garden in the spring. The wrinkled sorts follow a little later, as they are not quite so hardy. The tall, late varieties need brush, wire or some other support. Though light, warm soil is desirable for the extra early varieties, peas generally produce a much larger crop on soil which is moderately heavy. By making the proper selection of varieties and planting frequently for succession, one may have a full supply of the choicest green peas during the entire season.

Plant the early and dwarf varieties in drills  $2\frac{1}{2}$  feet apart and 3 or 4 inches deep but cover with only one inch of soil and fill the trench gradually as plants grow. Plant the taller and later varieties in rows 3 to 4 feet apart and 5 to 6 inches deep, covering as already suggested. The tall, late varieties may be planted in double rows, thus using the supports, which may be set between for both rows.

**PEAS BY PARCEL POST.** The prices here are for Peas at our counter or by express or freight, at customer's expense. If these are wanted in quantities over 1 pound by Parcel Post, remit extra for postage at zone rates. See inside front cover.

### Extra Early Dwarf Varieties

**SUTTON'S EXCELSIOR.** The best of the dwarf varieties. The vine is of more vigorous growth than the Nott's Excelsior, a little taller, fully as productive and matures its crop nearly as early, while both pods and peas are decidedly larger. In quality, equal to any of the dwarf varieties, all of which compare favorably with the larger and later sorts. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**NOTT'S EXCELSIOR.** This is one of the standard high-grade Early Peas that have established themselves with gardeners so firmly that many will take no other variety for its season. Its quality is fine, and for a wrinkled Pea it is hardy and thoroughly reliable. It does not require staking and the pods ripen evenly, making it extremely valuable for home and market use. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**EXTRA EARLY BLUE BANTAM.** The best first early dwarf wrinkled pea. It is unequalled for combination of extreme earliness, superb quality and unusual productiveness. The dwarf, vigorous vines average fifteen inches in height and carry really enormous

crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**LAXTON'S PROGRESS.** This is the earliest of the large-podded dwarf varieties. The pods are as large as Laxtonian, 4 inches long, broad and pointed, deep green in color, containing eight large dark green Peas of very high quality. The vines are 15 to 18 inches in height and are very productive. Laxton's Progress will mature Peas four days earlier than Laxtonian or Blue Bantam. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**LAXTONIAN.** A grand early dwarf Pea. The pods of Laxtonian are very large and are produced on a low-growing, sturdy vine, without support of any kind. Unlike many of its class, Laxtonian fills to the full its ample pods with large, luscious peas. The flavor is just as rich and good as any of the later varieties, which entitles it to a permanent place in every garden. It is ready for use just about a week later than the very early sorts and is incomparably good in quality. It is admirable for private gardens, where its abundant crop, produced so early in the season, is extremely welcome. The plant is only  $1\frac{1}{2}$  feet high, branching in habit. Pods and plant are rich, dark green in color, revealing a constitutional strength which enables it to resist the extreme conditions to which Peas are subjected in many sections of the United States. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**LITTLE MARVEL.** The Little Marvel Pea in size and shape all podded is very similar to the Nott's Excelsior but far more prolific. It is of exceptionally fine quality and enormously productive. The pods of this pea are about 3 to 4 inches long. It should be planted in every garden. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

### Extra Early Varieties of Taller Growth

**ALASKA.** Very early, smooth, blue pea. Popular with canners and market gardeners for a first early sort. Height  $2\frac{1}{2}$  feet. Foliage and pods light green; pods  $2\frac{1}{2}$  inches long, round, straight and square ended, containing 6 light green peas. Very uniform in maturity. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.



Thomas Laxon

## PEAS—Continued

**GRADUS.** A remarkable variety, combining earliness with peas of largest size and best quality. Mature soon after Nott's Excelsior. Vine resembles the Telephone but is only 3 to 3½ feet high on rich land; productive. Pods 4 inches long, straight, slightly curved at end, light green, well filled. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**MARKET SURPRISE.** This is a smooth seeded sort and, like all of this class, may be planted very early. It is the earliest maturing variety to date, vines growing to a height of about 30 inches, bearing abundantly pods 3 to 3½ inches long, well filled with peas of the finest quality. Every garden, large or small, should give this new sort a trial. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**PREMIUM GEM.** One of the most popular peas of this class in America. Hardy, prolific, and uniform in habit of growth and productiveness. Pods 2½ inches long, nearly straight, round, well filled to the end. Seed green, wrinkled. Height of the vine 18 inches. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**THOMAS LAXTON.** Vine of about the same height as the Gradus, of similar habits but much darker, hardier and more productive. More attractive and better filled with peas as large and equal in quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

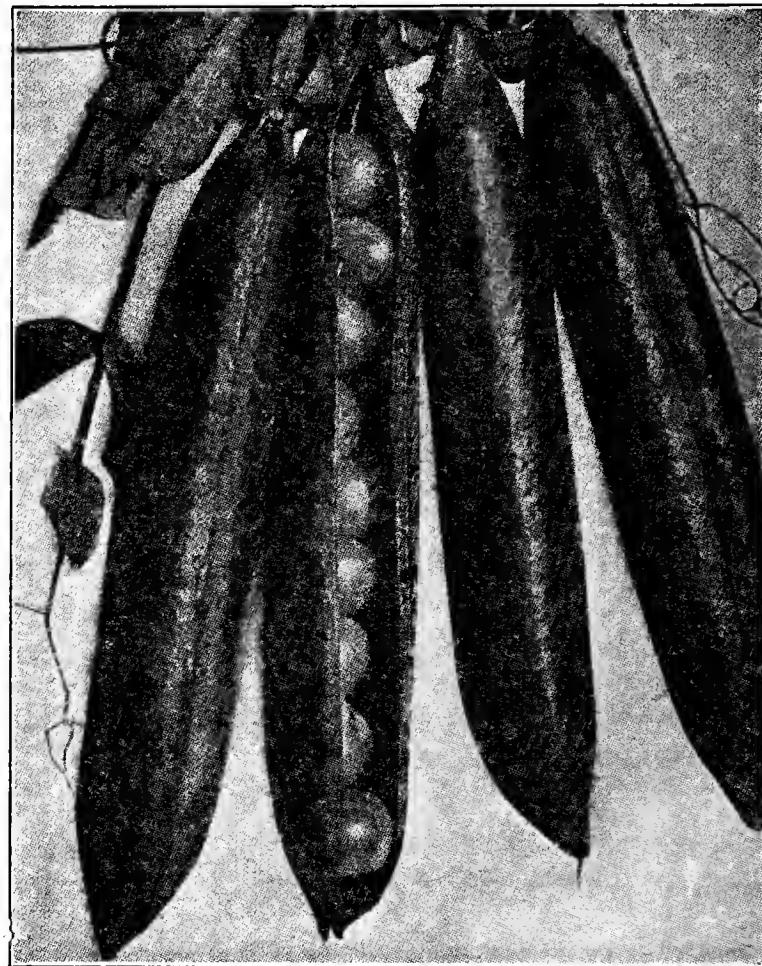
**ROSS' WORLD'S RECORD.** A large, early wrinkled pea with pods 3½ to 4 inches long. The pods are well filled with peas of excellent quality. The vines are vigorous, growing about 36 to 40 inches high. Peas are ready to pick 4 or 5 days before Gradus. A variety which should be in every garden. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

### SECOND-EARLY MEDIUM AND LATE VARIETIES

**ALDERMAN.** This mid-season pea is tall growing, of English origin, and a few days later than the "Improved Telephone." The pods are very large, straight and dark green color. The vines are exceedingly vigorous and immensely prolific; of the best quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 25 cts. per lb.

**CHAMPION OF ENGLAND.** Vine 4½ to 5 feet high, productive. Pods 2½ to 3 inches long, broad, well filled. Peas of medium size, much shriveled, of unsurpassed quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**DWARF CHAMPION.** A variety claimed to be equal in quality to Champion of England. Both peas and pods are considerably larger and vine is only about 2 feet high. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.



Improved Telephone

**EVERBEARING.** An excellent variety of branching habit. Pods about 3 inches long and well filled. Sweet and of fine flavor. Height 3 feet. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

**TELEPHONE.** Extensively grown. Vine 3½ to 4 feet. On good soil productive. Pods large. Peas above medium size, of best quality. Pkt. 15 cts., 1 lb. 30 cts., 2 lbs. 55 cts., 10 lbs. or over 24 cts. per lb.

## PEPPERS

An ounce will produce from 1,500 to 2,000 plants

Sow in hot bed in March or April; transplant in open ground when all danger from frost is over, in rows three feet apart and two feet apart in a row. Seed can be sown outside late in May. Cover seed one-half inch and thin as above.

**BELL, or BULL NOSE.** Large bell-shaped, thick-fleshed and less pungent than some other sorts. Good for filling. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**CHINESE GIANT.** Mammoth fruits measuring 12 to 15 inches in circumference, also early and prolific. The flesh is thick, tender, mild and sweet. Unexcelled for use as salads. Pkt. 10 cts., ½ oz. 35 cts., oz. 60 cts.

**GIANT CRIMSON.** The first to mature of the extra-large varieties and surpassed by none in evenness of size and shape. The fruit averages heavier than any other large peppers, as the flesh is unusually thick. When matured, the color is deep crimson, flavor very mild. The plant grows upright, is vigorous, larger than the Chinese Giant, and more productive. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**HARRIS EARLY GIANT.** The earliest known pepper and for the far North the most desirable. Plant very dwarf and compact in growth and extremely productive. Fruit 3-lobed, 3½ inches in length by 2½ inches diameter, very mild and sweet. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**LONG RED CAYENNE.** Fruit very slim, pointed, about 4 inches long, and when ripe, bright red. Extremely pungent. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**NEAPOLITAN.** A great market variety on account of its earliness and productiveness. Grows about 3½ inches long and is remarkably sweet. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**RED CHERRY.** Fruit small, round and cherry shaped. Scarlet and very hot. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**RED CHILI.** Used for making pepper-sauce. Pods bright red, slender, about 2 inches long and very pungent. Requires a long season; seed should be sown early in hotbed. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

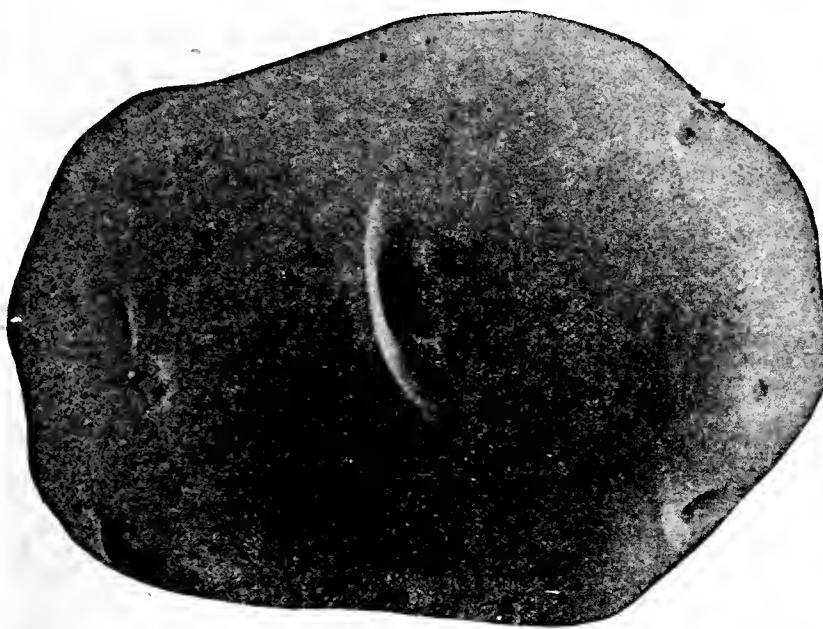
**RUBY GIANT.** A hybrid of Ruby King and Chinese Giant. It combines the large size of Chinese Giant and the productiveness, shape and color of the Ruby King. The flesh is thick, mild and sweet. Fruit often 5 inches long. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts., ¼ lb. \$1.25.

**RUBY KING.** Large. Four to six inches long, symmetrical, very mild and sweet. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**SQUASH, or TOMATO SHAPED.** Fruit flat or tomato shaped and somewhat ribbed, flesh thick and slightly more pungent than other large sorts, early and sure to mature. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

**SWEET MOUNTAIN.** Fruit very large, often 8 inches long by 2 inches in diameter. Flesh thick, sweet and mild. Pkt. 10 cts., ½ oz. 25 cts., oz. 40 cts.

# Maine Grown Certified Seed Potatoes



Irish Cobbler

## Certified Irish Cobblers

An early, white-skinned variety, very short, thick, inclining to round. This is yearly increasing in popularity for the early market. But few varieties, if any, combine earliness, size and production in as great a degree. This crop is ready for market about ten days earlier than the Early Rose; tubers are uniformly larger and in average production of large crops it is not equaled by any of the extra early varieties, nor greatly surpassed in yield by any of the main crop varieties. The vine is very stocky and vigorous, not as liable to be affected with blight or to suffer by drought as most others. No other of the early varieties is as dependable as this and is so certain to produce a crop.

## Certified Spaulding Rose

This potato is medium early, and practically free from blight and rot. It yields well in all climates and is in one section of Florida being planted almost exclusively. In color it resembles the Early Rose, perhaps a trifle lighter. In shape it is somewhat similar, but inclines to the oblong and is thicker. It is an attractive variety and of good quality.

## Selected Early Rose

(Early.) Its tubers are roundish, oblong and somewhat flat, while the skin is flesh-colored or pink. Not as prolific as some of the later sorts, but is extremely early. 100 lbs., \$2.75; 60 lbs., \$1.75; 30 lbs., 90 cts.; 15 lbs., 50 cts.

## Selected Carmen No. 3

A handsome, round white variety of the best quality; large, almost no small tubers. Claimed by the introducer to outyield any potato of its class. Vines large and vigorous, not troubled by bugs, or blight as much as those of other sorts. 100 lbs., \$2.50; 60 lbs., \$1.60; 30 lbs., 85 cts.; 15 lbs., 45 cts.

**Culture**—Cut the seed into pieces containing two or three eyes. Plant in rows 3 feet apart, and drop 15 to 18 inches apart in the row. One-half peck of potatoes should be sufficient to plant 100 ft. of row. Ten to twelve bushels of seed are required per acre. Cultivate constantly and thoroughly, and work the soil well up around the plants. Spray for both insects and blight.

## What "Certified Potatoes" Means

It means as much to the planter as pure bred stock means to the live stock breeder. Certified stock brings to you seed that will increase your yield and produce potatoes practically disease free. This means increased profit to the grower. Certified seed costs very little more and considering the additional value of the crop this increased cost is of no importance.

## Plant Certified Seed

Each season we find more attention being given by the planter to the selection of seed potatoes and it is through this care that some of our own Worcester County farmers have produced unusual crops of potatoes of excellent quality. A tremendous amount of work has been done for the production of Certified potatoes in our Northern New England States and as Maine has been and is at this time our heaviest potato producing state, much of the work in certifying has been carried on by the Department of Agriculture there.

Our seed stock, grown in Aroostook County, Maine, by some of the state's best growers, comes to you each full sack bearing the certification tag as an insurance of quality and disease-free seed stock.

## Certified Gold Coin

Productive and of unsurpassed quality. Very uniform in size, never over-large, but few small tubers. Form oblong, rather broad and thick. Skin almost white, with just enough of a light golden tinge to make it distinct from the white-skinned varieties and having that rich russet appearance generally considered an indication of good quality. Vine of strong, vigorous growth, not easily affected with blight.

## Certified Green Mountains

A white skinned variety of flat, oval form, smooth and attractive. Ripens slowly and is a good keeper. Quality excellent when well grown. This variety has been growing in popularity and is now the leader of all varieties for general crop.

## Potato Prices

Subject to Change Without Notice  
Certified Seed  
100 lbs., \$2.50; 60 lbs., \$1.60; 30 lbs., 85 cts.; 15 lbs., 45 cts.



Green Mountain

# PUMPKIN

An ounce will plant 50 hills

**SMALL SUGAR.** The popular variety in New England for pies; fine-grained and sweet. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00.**

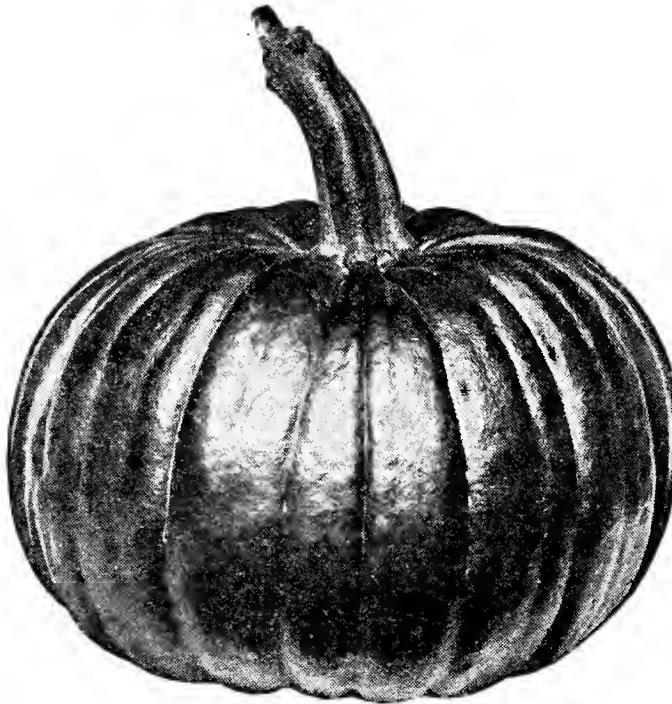
**LARGE CHEESE, or KENTUCKY FIELD.** Shape flat, skin of rich cream color when ripe, flesh tender and of fine quality. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.**

**MAMMOTH TOURS.** One of the largest in cultivation, good for feeding stock. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.**

**CONNECTICUT FIELD.** The standard variety for feeding stock. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00**

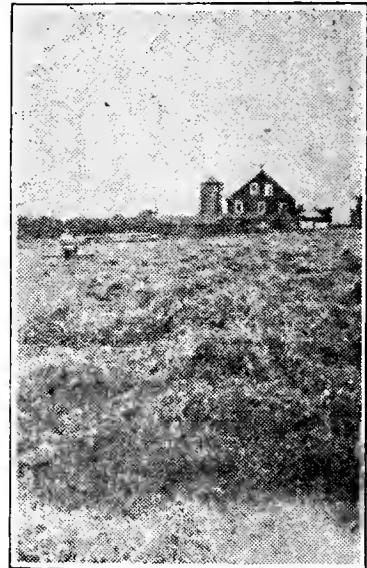
**JUMBO, or KING OF THE MAMMOTHS.** The largest of all Pumpkins. Skin, orange-salmon; flesh, bright yellow, very thick, fine grained and of excellent quality for pies. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.**

**QUAKER PIE.** Fruits broad, pear-shaped to slightly oval; skin rich cream-buff; flesh fine grained and of rich flavor. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00.**



Small Sugar Pumpkin

32 to 42 inches in height. These pictures give you some idea of the heft of the crop, although the best indication is the total cutting of more than fourteen tons from four acres. The land on which this crop was grown was meadow land which was broken up four years ago and had three successive plantings of Corn with moderate manure. No Lime or Commercial Fertilizer was used.



Milestone Farm

Southboro, Mass.

Gentlemen:

Some time ago I purchased seed from you to seed down four acres of meadow land, the seed being Timothy, Red Top and Clover.

I enclose two pictures to show you the result of the first year's crop. I am sorry the pictures are so small. It does not give you an idea of the beautiful field we have had this summer. We took a little better than fourteen tons of hay from four acres of ground and I think it is a tribute to the quality of seed you furnished us. Incidentally, I have just ordered seed for additional four acres which we are seeding down this month. In most parts of the field shown in the enclosed pictures, the Clover ranged from 26 to 30 inches in height, and the Herd's Grass from

Yours truly,  
Milestone Farm.

Milestone Farm.

# RADISH

An ounce will sow 150 feet of drill

Radishes are now grown the entire year, and may be sown when desired in hotbeds with moderate heat, either in rows 6 inches apart or broadcast. Soil should be light and rich, preferably new soil and fine rotted turf and commercial fertilizer. Seed may be sown outside very early, as soon as ground can be worked, in rows, 6 to 12 inches apart, as desired, and one-half inch deep. For our own use, we prefer that plants shall be thick, commencing to use roots when twice the size of a large pea and only thinning when plants are so crowded as to prevent the formation of roots of a size suitable for use. Grown in this way and used from the size noted to that of a small marble, roots are tender and crisp and never have the thick skin so generally a feature of those found in our markets.

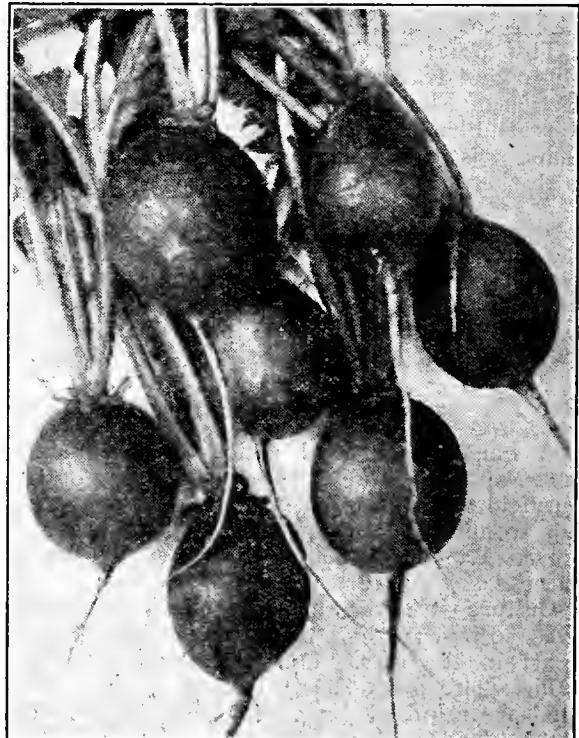
**EARLY SCARLET GLOBE.** A very early globe-shaped radish suitable for forcing or open ground. The radishes are of handsome shape, attractive bright red, and are crisp, solid and of the finest quality. They grow so rapidly that under favorable circumstances they may be pulled 20 days from sowing the seed. This is the most popular variety for forcing. Our seed is of the very finest strain grown from transplanted roots and will be found unsurpassed. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00.**

**CRIMSON GIANT.** An early but large, round or slightly globular radish adapted for either forcing or outdoor cultivation. While it grows much larger than other forcing varieties, it does not become pithy under glass, nor outdoors, even when it is twice as large and older. Beautiful crimson-carmine, attractive and of fine quality. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.**

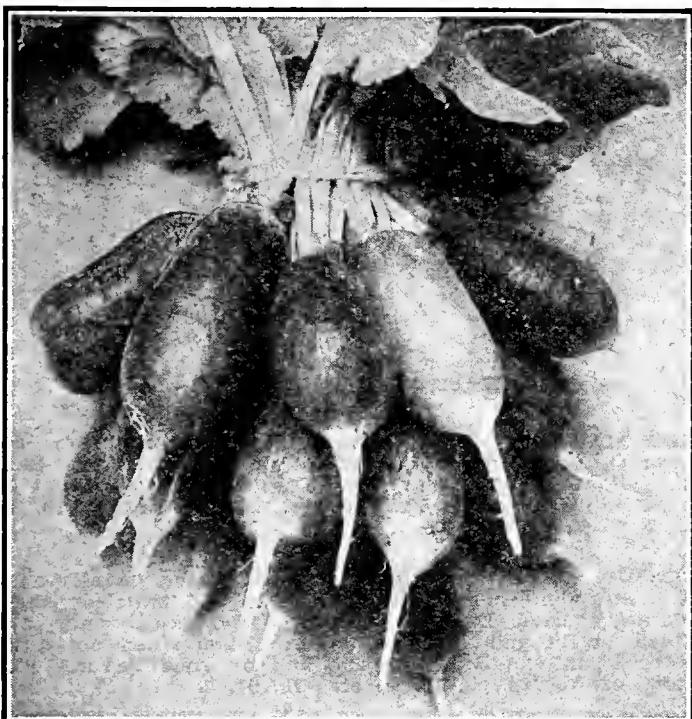
**EARLY SCARLET TURNIP.** A small round variety, with small tops; quick grower. Popular for forcing and outdoors. Deep scarlet. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00.**

**EARLY SCARLET TURNIP, WHITE-TIPPED.** Root nearly round, slightly flattened at bottom, bright scarlet with tip of clear white, early and attractive; suitable for forcing and outside planting. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 35 cts., lb. \$1.00.**

**EARLY LONG SCARLET, SHORT-TOP.** Once the most popular radish, but has been largely displaced by the round varieties; 6 to 8 inches long, ready to pull in twenty-five to thirty days from sowing. **Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.25.**



Radish, Scarlet Globe



French Breakfast Radish

## RADISH

**EARLY WHITE GIANT STUTTGART.** Root large, clear white, often 4 inches in diameter, does not become pithy until very late. Those not used for summer radish can be stored for winter use. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 40 cts., lb. \$1.40.**

**FRENCH BREAKFAST.** A stump-rooted radish about 8 inches long. Bright scarlet, tipped white. An old favorite for home garden. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**LONG BLACK SPANISH WINTER.** One of the hardiest and best for winter use. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

**ROUND BLACK SPANISH.** White flesh with black skin. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

**WHITE ICICLE.** The earliest pure white, long, summer radish of most excellent quality. Roots when matured are 5 to 6 inches long by about 1/2 inch in diameter. One of the best outdoor summer radishes. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.00.**

**WHITE STRASSBURG.** A fine summer variety, growing about 4 inches long and 2 inches thick. Pure white. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 40 cts., lb. \$1.25.**

## Rhubarb or Pie Plant

An ounce should produce 100 plants

The roots can be raised from seed sown in spring, and are ready to transplant to the permanent bed the next spring. The seed must be sown in fine, rich soil, and the seedlings must have good care.

**VICTORIA.** The most popular variety, fine for family use and market. Comes quite true from seed. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 90 cts.**

**RHUBARB ROOTS.** Sent by express at buyer's expense. 2 for 25 cts.

## Salsify or Vegetable Oyster An ounce will sow 50 feet of drill

Sow early and deeper than parsnip, otherwise culture is the same and, like that, roots, if desired, may be left in the ground through the winter, but should be dug very early in the spring, as they deteriorate after growth commences.

**MAMMOTH SANDWICH ISLAND.** Larger, of stronger growth, and less liable to grow spongy than the old Long White. **Pkt. 10 cts., oz. 25 cts., 1/4 lb. 90 cts.**

## SPINACH An ounce will sow 100 feet of drill, 14 to 16 pounds to the acre

**CULTURE**—For spring and summer use, sow in drills 1 foot apart and 1 inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well-manured ground; cover with straw on the approach of severe cold weather. The ground cannot be too rich.

**EARLY GIANT THICK-LEAVED.** Leaves very large and thick, deep green, attaining a size suitable for use early and plant grows to a large size before running to seed. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**PRINCESS JULIANA.** (New.) The best second-early variety. Plants grow close to the ground and have dark green, crumpled leaves which retain their crispness for a long time after being cut. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**KING OF DENMARK.** Also known as "Antvorskov." This new variety is undoubtedly the most valuable introduction of spinach in recent years. Although the plants are ready for use almost as soon as the medium early sorts, they remain in good condition for a week to two weeks after other varieties have gone to seed. The plants are of rapid growth, resemble the Long Season in type, but leaves are more crumpled or blistered and are of darker green color. The leaves are thick, stand well after cutting and are of good quality. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**BLOOMSDALE LONG STANDING.** In appearance quite similar to the Bloomsdale strain, the leaves being more intensively green. On account of the low percent of male plants it stands heat remarkably well. After other kinds have gone to seed this will stand for a long time. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

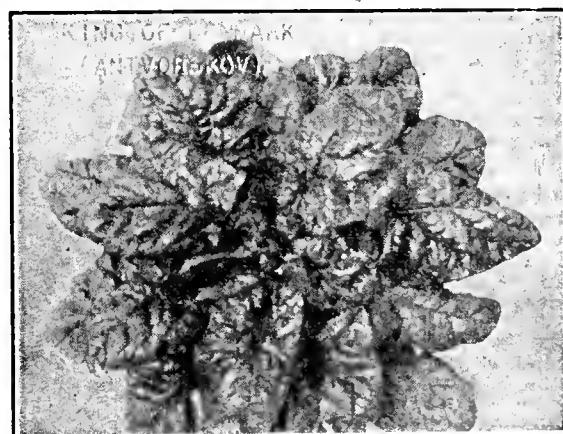
**SAVOY-LEAVED, or BLOOMSDALE.** The earliest variety and used almost entirely for fall sowing, as it runs quickly to seed in warm weather. Leaves of medium size, dark green, pointed and crimped. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**SAVOY, Virginia Yellow Resistant.** It will grow on disease infested soil and produce a crop where others fail. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 30 cts.**

**NEW ZEALAND.** Thrives during the hottest summer weather in any soil, rich or poor, a single plant covering a space about 4 feet square. The tender tips may be cut every few days; after cutting, the plant puts out new growth and continues till frost. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. \$1.25.**



Early Giant Thick-Leaved Spinach



King of Denmark Spinach

## Squash

**An ounce will plant from 10 to 25 hills.**  
 Squash seed should be planted at about the same time and in the same manner as cucumbers and melons. The hills should be 9 feet apart each way, slightly elevated and highly manured. Bush varieties may be planted closer together. Use plenty of seed, as the bugs will destroy some plants.

### Blue Hubbard

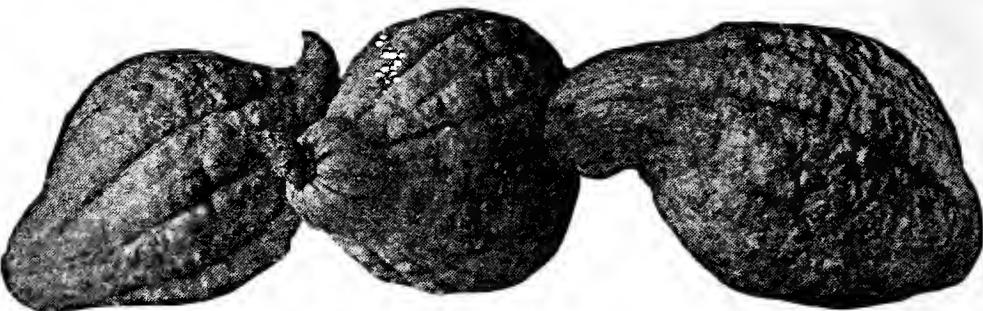
The Symmes Blue Hubbard is an entirely distinct variety resembling the Warted Hubbard in shape. It is a pale light blue color, very thick meated, dry and very sweet; its eating qualities cannot be surpassed. The Blue Hubbard is an exceptionally heavy cropper, producing an extraordinary number of squashes, which, though not of the largest, are of even size, thus making it very easy to handle and market. It has excellent qualities, keeping, with proper storage, much longer than the Delicious. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

### Chicago or Warted Hubbard

A selection of the Hubbard, with thickly warted shell. Equal in quality to that and generally considered to be of more attractive appearance. Of this also we offer a carefully selected strain unsurpassed by any we have ever seen. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

### Green Hubbard

A well-known and favorite winter variety, more largely grown than any other. We offer a choice strain, considered by some of our customers to be superior to the popular Chicago Hubbard. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.



Blue Hubbard

**BOSTON MARROW.** This grows larger than either the Prolific or Orange Marrow, but is not of so deep color. Skin thin, yellow, with pinkish tint. Desirable for pies; not so dry as the Hubbard. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

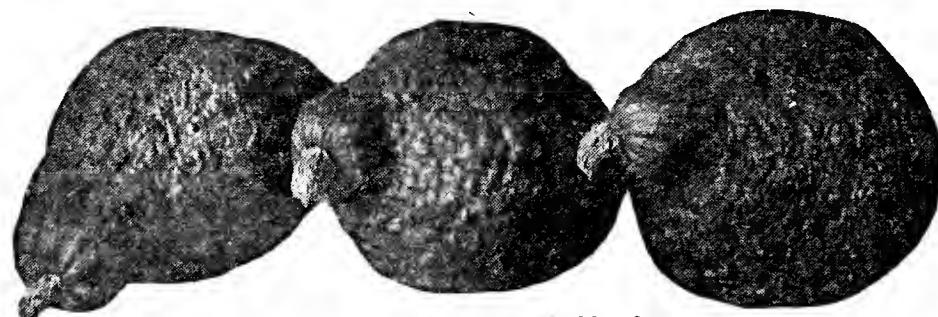
**DELICIOUS.** A fall and winter variety. Color, usually dark green, but sometimes lighter in color and mottled; shell, moderately hard but very thin; flesh, thick, very fine grained, sweet and of finest flavor. Even when not quite mature is in condition for use and of good flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**EARLY SUMMER CROOKNECK.** For early planting the Crookneck type is used in New England to almost the exclusion of any other. This, while much smaller than the Mammoth Crookneck, is yet largely grown, many considering it of better flavor. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**ESSEX HYBRID.** An old, well-known orange turban sort. Flesh is dry, sweet and thick, bright orange color. One of the best for keeping. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**GOLDEN HUBBARD.** A distinct sort of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and a rich orange-red instead of the dark olive-green of the old Hubbard, while the flesh, which is thick, is a little deeper colored, of fully as good quality, fine grained and dry. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**EARLY GIANT SUMMER.** Early, mostly straight necked and much larger than the Summer Crookneck. A fine quality growing from 14 to 16 inches long. Extensively used by market gardeners and exceptionally good for home gardeners. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.



Improved Green Hubbard

**MAMMOTH SUMMER CROOKNECK.** Vine larger and of more vigorous growth than the Summer Crookneck and fruit is twice as large and deeper colored. Its large size and attractive appearance have made it popular with market gardeners. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**ITALIAN VEGETABLE MARROW.** Vines of bush habit, producing large, much elongated fruits. Dark green at first, but becoming marbled with yellow as they mature. The young fruits, when fried in oil, constitute a vegetable delicacy very popular. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**ORANGE MARROW.** An early variety, much like the Prolific Marrow in color and pitting, but is more nearly round, later much thicker meated and of better quality. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

**THE WARREN.** A fine turban, has a shell generally harder and thicker than the Essex Hybrid and the color is a deeper and richer orange, while the quality is decidedly better. The Warren is now grown very extensively by market-gardeners. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.



Early Giant Summer

# TOMATO

An ounce will produce about 2,000 plants

Tomatoes do best on light, warm, not over-rich soil. Sow in hotbed or window-box (where 60 degrees Fahr. is the minimum night temperature) in March, in rows 3 inches apart and  $\frac{1}{2}$  inch deep. Cover firmly. Later sowings may be made to the end of April. When seedlings are 3 inches high, transplant 4 inches apart each way in hotbeds, coldframes, or singly in 3-inch pots. Harden plants by exposing to the air occasionally. After warm weather is settled, set out plants 3 to 4 feet apart each way in hills, into each of which fertilizer has been previously mixed. Water freely at time of transplanting and shelter from sun until plants are well established.

**ACME.** Vine hardy and productive. Fruit in clusters of four or five round, smooth and of good size; flesh solid and of excellent flavor. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**BEAUTY.** Vines large, vigorous and heavy bearers; fruit large, uniform in size, very smooth, and excellent flavor; color, purplish pink. The best purple sort. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**BONNY BEST.** This tomato has been tested and found eight to ten days earlier than the Chalk's Early Jewel and ripens about with the Earliana. Very strong grower and the fruit is uniform and smooth; ripens evenly all over, excellent shipper. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**BREAK O' DAY.** Ripens almost as early as Earliana, but it has the same depth of fruit and thick walls as Marglobe. Blight resistant. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**CLARK'S EARLY.** An improved Bonny Best. Fruit very uniform. Excellent shipper. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**COMET.** Fruit medium size, scarlet. The heaviest yielder of the green-house sorts. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.,  $\frac{1}{4}$  lb. \$2.00.**

**DWARF CHAMPION.** Sometimes sold as the "Tree Tomato." A second early, purplish pink variety, especially desirable where garden space is limited. Vine about two feet high, vigorous, upright and compact. Fruits, medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**DWARF STONE.** Vine dwarf but vigorous and productive. While maturing with the later sorts, the bright red fruits are of good color, exceedingly smooth and very solid. We consider this the best of the large fruited, dwarf tomatoes. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**GOLDEN QUEEN.** The best yellow variety, medium size, smooth and solid. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**JUNE PINK.** An extra early, purplish pink tomato similar to the popular scarlet fruited Earliana in growth of vine, shape and size of fruits and time of maturing. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**JOHN BAER.** An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early and are most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the earliest to ripen and it continues to furnish marketable fruits much longer than the other very early varieties. It is a very valuable sort for market gardeners' use. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**MARGLOBE.** This Tomato is a wilt-resistant variety. The plant is vigorous and the fruit is quite large. This is a globe shape Tomato, the color being a handsome deep red. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**MONTEREY.** This is one of the largest smooth tomatoes. Color, deep purple. The fruit is exceptionally solid, having but few seeds and is quite free from acid. It is also an ideal variety for shipping. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 30 cts., oz. 50 cts.,  $\frac{1}{4}$  lb. \$1.50.**

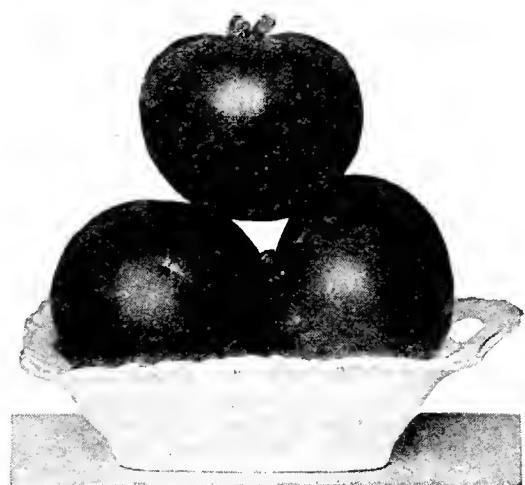
**SPARK'S EARLIANA.** A deep red tomato. The vines are compact in growth, with short, close-jointed branches. This is an extra early tomato, and the best so far produced. Very productive. Fruit fair size and firm. In test it ripened fruit in 108 days from date of sowing seed. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

**STONE.** Vines vigorous and productive; fruit, large, smooth, deep red in color, and heavy. The best all around variety where earliness is not important. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 25 cts., oz. 40 cts.,  $\frac{1}{4}$  lb. \$1.25.**

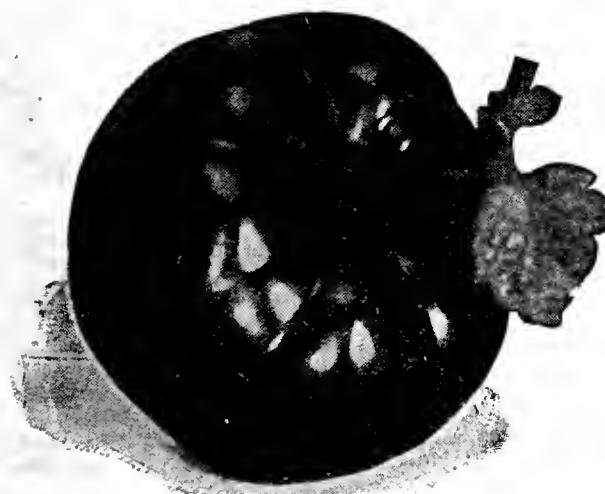
**RED PLUM (Italian).** A beautiful bright red plum-shaped Tomato, largely used for salads. One of the most prolific Tomatoes grown. **Pkt. 10 cts.**

**YELLOW PLUM.** Small, plum-shaped fruit of rich flavor. Desirable for preserving and pickling. **Pkt. 10 cts.**

**YELLOW HUSK, or STRAWBERRY.** Fruit about the size of a small cherry, borne in husks; of very rich flavor; used only for preserves. Plant also distinct. **Pkt. 10 cts.**



John Baer



Dwarf Stone

## Turnip

An ounce will sow 200 feet of drill. If sown in drills, one pound is required for an acre; if sown broadcast, less seed is sufficient if sown evenly.

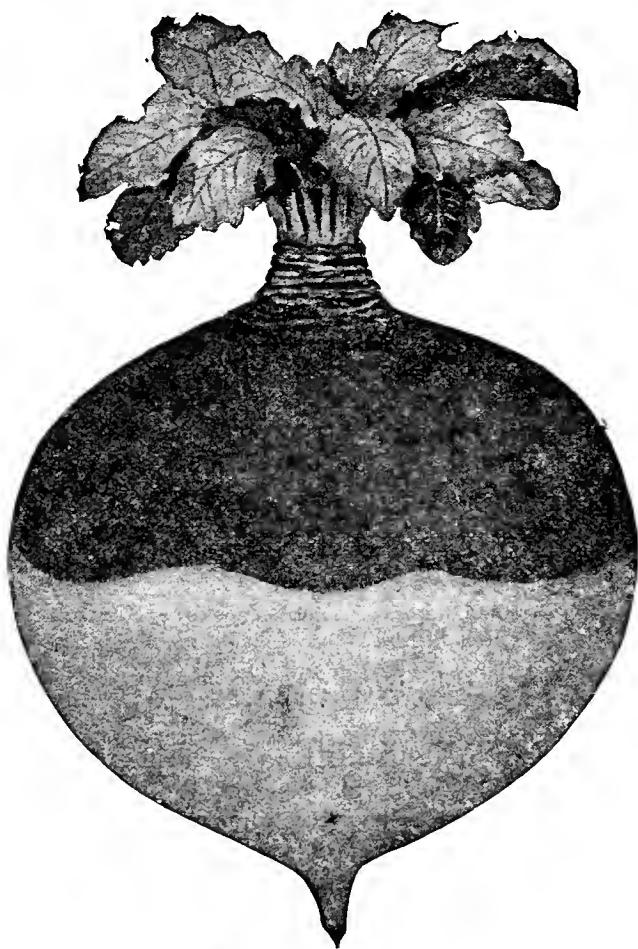
**CULTURE**—For early, sow seed of flat varieties in open ground in spring in drills one foot or more apart, using seed sparingly. Thin to 3 or 4 inches apart. For succession, sow every two weeks until June. For fall and winter, sow in July and August. A good crop may often be grown by scattering seed thinly in the cornfield at last cultivation. For Rutabagas, sow seed in seed-bed in spring and transplant to good warm soil, in rows at least 2 feet apart and 8 or 10 inches apart in the rows, or sow in open ground during June and early July. Take up the roots just before winter, top and store in cool cellar, or pit outdoors.

**EARLY WHITE MILAN.** Roots flat, smooth and symmetrical, pure white. Top very small, upright, and compact, permitting close planting. The earliest and much the best of any extra early white variety. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 50 cts.**

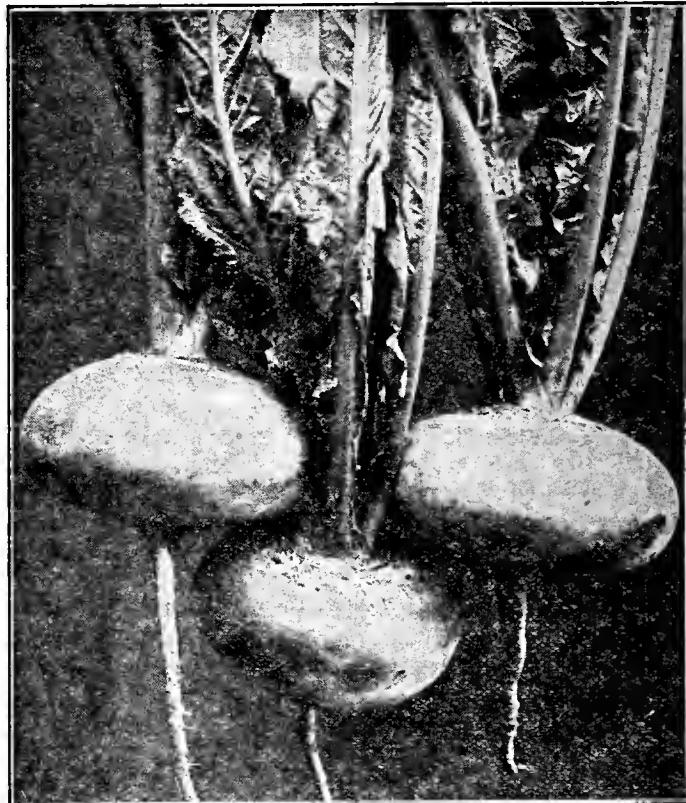
**EARLY PURPLE MILAN.** Differs from the preceding in that the roots are not quite so thick and are purple on top. **Pkt. 10 cts., oz. 20 cts., 1/4 lb. 50 cts.**

**EARLY PURPLE-TOP FLAT.** A well-known variety and very extensively grown. Roots smooth, white, with the upper portion purplish red. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**EARLY PURPLE-TOP WHITE GLOBE.** One of the handsomest varieties, the upper portions of the root being a purplish red, the lower pure white. A rapid grower, attaining a marketable size sooner than other large globular varieties. Of the best quality and an excellent keeper. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**



Long Island Improved



Early Purple Top Flat

**WHITE EGG.** More extensively grown than any other variety. White, egg-shaped, smooth and symmetrical, of medium size; flesh firm, sweet and mild. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**GOLDEN BALL, or ORANGE JELLY.** Of globular form, medium size, skin rich orange; flesh, pale amber, very fine-grained, mild and sweet. One of the most attractive, of the best quality and keeps well. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**YELLOW GLOBE.** The standard yellow variety. The form is round, slightly flattened. Largely grown for stock, and to some extent for market. An excellent keeper. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**COW HORN, or LONG WHITE.** Root long, slightly crooked and grows nearly half above ground. Clear white, except a little green at top. Though more largely used for feeding stock, it is a fine table variety, being tender and of mild flavor. Of very rapid growth. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 25 cts., lb. 75 cts.**

**Swedish, Russian or Rutabaga**

**SWEET RUSSIAN.** An old variety, yet largely grown, mainly for table use. Sweet and mild. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. 90 cts.**

**WHITE FRENCH, or ROCK.** Also an old and popular sort. Roots a little longer than Sweet Russian, but does not otherwise differ. Valuable for table or feeding. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. 90 cts.**

**BREADSTONE.** An early variety, white, faintly colored at top; medium size, tender, mild and sweet. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. 90 cts.**

**SHAMROCK.** A popular English Yellow Swede. A decided favorite with our local trade. Has short neck, shape oblong. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. 90 cts.**

**LONG ISLAND IMPROVED.** This is undoubtedly the finest variety of Purple-Top Rutabaga. It grows much larger than other American varieties, is, therefore, desirable for stock, but equally desirable for the table and market, as it is tender and sweet and of very attractive appearance. **Pkt. 10 cts., oz. 15 cts., 1/4 lb. 35 cts., lb. 90 cts.**

## Tobacco

**CONNECTICUT SEED LEAF.** A hardy cigar variety, well adapted to growing in the Middle and Northern States. **Pkt. 10 cts., oz. 40 cts.**

**HAVANA.** Leaf very thin, fine texture. Much used for cigar wrappers. **Pkt. 10 cts., oz. 40 cts.**

# Reference Table for Sowing, Etc.

Name	Date of Sowing		Days to Come Up	Ready to use from Seed Sown	Distance		Depth to Cover	Quantity of Seed
	Under Glass	Open Ground			Apart in Rows	Rows Apart		
Asparagus Roots		April		2-3 years	1 foot	4 feet	4 inches	100 for 100 feet of row
Beans, Dwarf		May-Aug.	6-10	45- 80 days	2 inches	3 feet	2 inches	1 lb. for 100 feet of row
Beans, Pole		May-June	6-10	60-100 days	3 feet	4 feet	2 inches	1 lb. for 100 hills
Beets	March	April-Aug.	7-10	60- 80 days	4 inches	1 foot	1 inch	1 oz. for 100 feet of row
Cabbage, Early	Feb.		6-10	80-125 days	18 inches	2 feet	½ inch	½ oz. for 200 feet of row
Cabbage, Late		May-June	6-10	110-180 days	2 feet	3 feet	½ inch	½ oz. for 200 feet of row
Carrots, Early	March	April	10-15	60- 85 days	4 inches	14 inches	½ inch	1 oz. for 150 feet of row
Carrots, Late		May-June	10-15	100-120 days	4 inches	14 inches	½ inch	1 oz. for 150 feet of row
Cauliflower, Early	Feb.	April	6-10	100-115 days	1½ feet	3 feet	½ inch	¼ oz. for 100 feet of row
Cauliflower, Late		May-June	6-10	100-125 days	1½ feet	3 feet	½ inch	¼ oz. for 100 feet of row
Celery Seed	March	April	12-20	125-150 days	1 inch	3 inches	½ inch	Pkt. for 100 feet of row
Celery Plants		May-June			6 inches	6 inches		
Corn, Sweet		May-July	8-10	55-100 days	8 inches	3 feet	1 inch	1 pkt. for 100 hills
Cucumber		May-July	6- 8	60- 85 days	4 feet	4 feet	½ inch	1 oz. for 50 hills
Egg Plants	March		10-14	125-180 days	2 inches	3 inches	½ inch	1 pkt. for 100 feet of row
Endive	Feb.	April-Aug.	6-10	75-100 days	1 foot	1 foot	½ inch	1 oz. for 300 feet of row
Kohl Rabi		April-Aug.	6- 8	65- 85 days	8 inches	1 foot	½ inch	1 pkt. for 100 feet of row
Lettuce	Feb.	April-Aug.	6-10	65-100 days	8 inches	1 foot	½ inch	1 pkt. for 100 feet of row
Melon, Musk		May-June	6-10	90-120 days	5 feet	5 feet	1 inch	1 oz. for 50 hills
Melon, Water		May-June	8-12	100-125 days	6 feet	6 feet	2 inches	1 oz. for 25 hills
Okra		May	6-10	120-150 days	2 feet	3 feet	1 inch	1 oz. for 50 feet of row
Onion Seed	Feb.	April-May	6-14	80-100 days	3 inches	14 inches	½ inch	1 oz. for 200 feet of row
Onion Sets		April-May			2 inches	14 inches	1 inch	4 lbs. for 100 feet of row
Parsnips		April	12-18	120-150 days	4 inches	18 inches	½ inch	1 oz. for 200 feet of row
Parsley		April-May	18-24	90-100 days	4 inches	1 foot	½ inch	1 oz. for 200 feet of row
Peas, Wrinkled		April-July	5-10	50- 75 days	2 inches	3 feet	2 inches	1 lb. for 100 feet of row
Peppers	March		10-14	135-150 days	2 feet	2 feet	½ inch	½ oz. for 100 feet of row
Potatoes	March	April-June	10-25	75-100 days	1 foot	3 feet	4 inches	15 lbs. for 100 feet of row
Pumpkins		May-June	6-10	100-125 days	8 feet	8 feet	2 inches	1 oz. for 50 hills
Radish	March	April-Sept.	4- 6	25- 50 days	1 inch	1 foot	½ inch	1 oz. for 150 feet of row
Salsify		April-May	8-12	125-160 days	3 inches	1 foot	1 inch	1 oz. for 60 feet of row
Spinach		April-Sept.	6-12	60- 75 days	3 inches	1 foot	1 inch	1 oz. for 100 feet of row
Squash, Summer		May-June	6-10	60-120 days	8 feet	8 feet	2 inches	1 oz. for 25 hills
Squash, Winter		May-June	6-10	60-120 days	8 feet	8 feet	2 inches	1 oz. for 10 hills
Tomato Seeds	Feb.		6-12	125-150 days	2 inches	2 inches	½ inch	1 pkt. for 100 plants
Tomato Plants		May-June			4 feet	4 feet		
Turnip		April-Sept.	4- 8	50- 75 days	3-6 inches	1-1½ feet	½ inch	1 oz. for 200 feet of row

The following vegetables can be produced on a space of 20x45 feet.

25 dozen green onions, 1 bushel of dry onions, 1 bushel of green peas, 12 dozen of beets, 25 dozen of radishes, 150 heads of celery, 2 bushels of string beans, 20 heads of cauliflower, 20 heads of cabbage, 2 bushels of spinach, 2 bushels of carrots, 2 bushels of parsnips, 20 egg plants, 50 heads of lettuce, 10 heads of endive, 10 kohlrabi, 8 dozen sweet corn, 50 musk melons, 200 pickling cucumbers, 10 large cucumbers, 4 bushels of tomatoes, 2 bushels of potatoes, 3 bushels of turnips.

After the early sorts are taken off you can follow with varieties that can be planted late and produce two crops on the same grounds.



## Annual and Perennial Seeds for Rock Garden

A—Annual. P—Perennial.

161 <i>Agrostemma</i> . 1½ ft. P.	525 <i>Heuchera</i> . 1 ft. P.	903 <i>Primrose</i> . 8 in. P.
170 <i>Alyssum</i> . 1 ft. P.	526 <i>Hibiscus</i> . 2 ft. P.	913 <i>Pyrethrum</i> . 1 ft. P.
185 <i>Anchusa</i> . 1½ ft. P.	543 <i>Iberis</i> . 8 in. P.	921 <i>Rocket Sweet</i> . 1½ ft. P.
188-189 <i>Anemone</i> . 1 ft. P.	609 <i>Marigold Scotch</i> . 9 in. A.	940 <i>Sanvitalia</i> . 4 to 6 in. A.
209 <i>Arabis</i> . 6 in. P.	632 <i>Nepeta</i> . 1 ft. P.	949A <i>Sedum</i> . 3 in. P.
418 <i>Dianthus</i> . 1 ft. P.	818 <i>Petunia</i> . 1 ft. A.	953 <i>Silene</i> . 6 in. A.
461 <i>Forget-Me-Not</i> . 6 in. P.	841 <i>Phlox Dwarf</i> . 6 to 8 in. A.	974 <i>Stokesia</i> . 2 ft. P.
478 <i>Gaillardia</i> . 1½ to 2 ft. P.	894 <i>Portulaca</i> . 4 in. P.	1318 <i>Tunica</i> . 10 in. P.
487 <i>Geum</i> . 2 ft. P.		1335 <i>Viola Cornuta</i> . 8 in. P.

## Annual and Perennial Seeds for Borders

151 <i>Ageratum</i> . 8 in. A.	282 <i>Candytuft</i> . 8 in. A.	609 <i>Marigold Scotch</i> . 9 in. A.
167 <i>Alyssum</i> . 6 in. A.	338 <i>Clarkia</i> . 1 ft. A.	747 <i>Nasturtium Dwarf</i> . A.
170 <i>Alyssum</i> . 1 ft. P.	461 <i>Forget-Me-Not</i> . 6 in. P.	632 <i>Nepeta</i> . 1 ft. P.
188-189 <i>Anemone</i> . 1 ft. P.	519 <i>Heliotrope</i> . 18 in. P.	841 <i>Phlox Dwarf</i> . 6 to 8 in. A.
209 <i>Arabis</i> . 6 in. P.	525 <i>Heuchera</i> . 1 ft. P.	940 <i>Sanvitalia</i> . 4 to 6 in. A.
250 <i>Brachycome</i> . 1 ft. A.	543 <i>Iberis</i> . 8 in. P.	953 <i>Silene</i> . 6 in. A.
251 <i>Browallia</i> . 1½ ft. A.		1318 <i>Tunica</i> . 10 in. P.

## Annual and Perennial Climbers

140 <i>Adlumia</i> . 10 to 15 ft. P.	345 <i>Cobaea</i> . 20 to 30 ft. P.	560 <i>Kudzu Vine</i> . 40 to 50 ft. P.
215 <i>Aristolochia</i> . 15 to 20 ft. P.	370 <i>Cypress Vine</i> . 10 to 12 ft. A.	570 <i>Lathryus Latifolius</i> . 6 to 8 ft. P.
235 <i>Balloon Vine</i> . 10 to 15 ft. A.	433 <i>Dolichos</i> . 10 ft. A.	635-635B <i>Moonflower</i> . 30 ft. A.
240 <i>Beans, Scarlet</i> . 10 to 15 ft. A.	537 <i>Humulus</i> . 10 to 20 ft. A.	636 <i>Morning Glory</i> . 8 to 10 ft. A.
241 <i>Beans, White</i> . 10 to 15 ft. A.	538 <i>Humulus</i> . 10 to 20 ft. P.	705 <i>Nasturtium, Tall</i> . A.
275 <i>Canary Creeper</i> . 10 to 15 ft. A.	549 to 553 <i>Ipomea</i> . 15 to 30 ft. A.	1315 <i>Thunbergia</i> . 4 ft. A.
340 <i>Clematis</i> . 12 ft. P.		1346 <i>Wild Cucumber Vine</i> . 15 to 20 ft. A.

For full description see general list of Annual or Perennial Flower Seeds.



California Giant Double

**California Giant Single**

This Aster was developed out of the California Giant Double type. The flowers are large, measuring three to four inches across, with stems 18 to 24 inches in length. The petal has a slight twist, which adds a piquant touch to its beauty. The white blossoms resemble Shasta Daisies in appearance, but their greater length of stem makes them more graceful and better adapted to florists' use. In the garden Aster, California Giant Single adds a charming note of simplicity among the fuller types of Aster. We believe this new, single type of Aster is destined to become very popular.

15 **Finest Mixed.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 75 cts.,  $\frac{1}{2}$  oz. \$1.40.

**California Sunshine**

An attractive anemone flowered variety, particularly fine for cutting.

18 **Carmine.** 19 **Lavender.** 20 **Pink.** 21 **Dark Blue.**

22 **White.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.

24 **Mixed Colors.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 75 cts.

**Heart of France**

32 The best pure-red Aster ever introduced. All others have sombre shades of blue or too much yellow in the color pigments. Heart of France opens red as the purest ruby, deepens with age and retains its remarkable beauty to the very end. The petals appear strikingly changeable, showing now a glow and sheen quite unique, now a soft, warm, velvety texture. Pkt. 15 cts.,  $\frac{1}{16}$  oz. 50 cts.,  $\frac{1}{8}$  oz. 90 cts.

Do you receive our fall catalogue for Dutch bulbs? We list a full line of Tulips, Hyacinths and miscellaneous bulbs, also American grown Narcissus. If you do not receive this book, send us your name and address and we will gladly put you on our mailing list for our next fall catalogue.

# Selected List (ANNUAL) of Flower Seeds

**GENERAL CULTURE DIRECTION**

Make the soil fine, and cover lightly. If weather following is hot and dry, it may be necessary to water; water thoroughly and, once commenced, regularly or not at all. Most plants can be transplanted well; there are a few that do not. In this case, seed should be sown where plants are to remain.

**PLEASE ORDER BY NUMBER AS WELL AS BY NAME.**

**ANNUAL SEED ON PAGES 34 to 53.**

**PERENNIAL SEED ON PAGES 53 to 58.**

**EEZY WEAR GARDEN GLOVES.** In four sizes, see page 114.

## ASTERS One of the very best Annuals for cut-flowers

The Aster is of easy culture and very popular. Plants from seed sown in open ground in May bloom freely in September and October. For July and August flowers, sow in March or April in cold-frame, spent hotbed, or in pots or boxes in the house. Cover the seeds about half an inch deep with rich, light soil, and when the plants have three or four leaves transplant about 18 inches apart each way into well prepared beds. Manure too fresh or used in too large quantities sometimes induces disease in Aster. When used, they should be thoroughly well decayed and mixed with the soil.

**California Giant Double**

We take pleasure in recommending this type as the best Aster on the market today. Characterized by the well known Crego or Ostrich Feather type of flower, combined with the Beauty Aster's long, non-lateral branching stems and sturdy habit of growth, the California Giant Double type of Aster stands at the head of the list, not only for florists' use but also for private gardens where quality is appreciated.

8 **White, new, fine.** 9 **Peach Blossom.** 10 **Light Blue.**  
11 **Light Purple.** 12 **Deep Rose.** 13. **Dark Purple.**  
Pkt. 10 cts.,  $\frac{1}{16}$  oz. 30 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.

14 **Mixture of above.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 75 cts.,  $\frac{1}{2}$  oz. \$1.40.



Aster, Heart of France

# ASTERS (ANNUAL)

## The Rochester

The plants of Rochester Asters, like those of the Late Branching variety, are large and strong, with many long branches. Their flowers have, in common with others of the Comet type, petals that are very long and narrow and gracefully recurved, giving them a lightness and grace that make them the most artistic of all Asters.

33 Shell Pink. 34 Lavender. 35 White. Pkt. 15 cts., 1/16 oz. 50 cts., 1/8 oz. 90 cts.

## Pink Enchantress

36 This splendid Aster, introduced recently, is highly commended, and large quantities are grown annually by commercial florists. The immense flowers of a soft, delicate pink are borne on strong upright plants. The color is that of the popular "Pink Enchantress" Carnation. In Asters, the color is between that of Daybreak and the Semple's Pink Branching and, although very delicate, does not fade. In size, the flowers are equal to those of the largest Branching Asters. Pkt. 10 cts., 1/8 oz. 60 cts., 1/4 oz. \$1.10.

## Queen of the Market

A very early blooming strain, which, though plant is only 1 1/4 feet high, bears from ten to fifteen well-formed, medium-sized flowers on long stems. Much used by florists.

37 White. 38 Rose. 39 Light Blue. 40 Pink. 41 Crimson. 42 Mixed Colors. Each pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 75 cts.

43 DAYBREAK. Flowers very large and full, and borne on long stems; color, a beautiful shell-pink. The plant blooms early and profusely and is of a strong and compact habit. Very popular; 2 feet. Pkt. 10 cts., 1/8 oz. 50 cts.

44 PURITY. Pure white. A desirable companion to Daybreak. Identical in form of flowers and general habit. Blooms at the same time. Pkt. 10 cts., 1/8 oz. 50 cts.

45 LAVENDER DAYBREAK. Soft, clear lavender. Of same type as Purity and Daybreak. Pkt. 10 cts., 1/8 oz. 50 cts.

ROYAL. This is considered by many to be the very best general purpose Aster ever introduced. It is very much like our American Branching variety, having all its good qualities, but coming into bloom in July or early August and lasting in perfect condition for a long time. The habit of the plants and their free flowering make them very desirable for beds or borders, and the long stemmed flowers are ideal for cutting.

46 Shell Pink. 47 White. 48 Lavender. 49 Mixed Colors. Pkt. 10 cts., 1/8 oz. 60 cts.

VICTORIA. Considered for a long time one of the finest types and improved in recent years. The flowers are large, double, imbricated, having petals which curve outward like those of the show dahlias. Bears freely, beautiful long stemmed flowers.

62 Mixed Colors. A superb mixture. Pkt. 10 cts., 1/8 oz. 40 cts.

GIANT BRANCHING COMET. Distinct and valuable; flowers resemble the Japanese chrysanthemum. Not only larger, but petals are longer and somewhat broader than the old Comet section. The plant is of vigorous, luxuriant growth and produces freely its long-stemmed graceful flowers; 1 1/2 to 2 feet.

70 White. 71 Light Yellow. 73 Rose. 74 Lavender. 75 Crimson. 76 Shell Pink. Each, pkt. 10 cts., 1/8 oz. 40 cts.

80 Mixed Colors. Many colors and shades. Pkt. 10 cts., 1/8 oz. 40 cts.

AMERICAN BRANCHING. A superior late-blooming strain of American origin. The flowers are of the largest size, borne on long, graceful stems often 15 or more inches in length, are exceedingly beautiful and unsurpassed for cutting. The plants are of extra large and strong growth, and bloom profusely; 2 1/2 feet.

108 White. 109 Pink. 110 Lavender. 111 Crimson. 112 Purple. Each pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 75 cts.

116 Mixed Color. Pkt. 10 cts., 1/8 oz. 30 cts., 1/4 oz. 50 cts., oz. \$1.50.

SEMPLE'S BRANCHING. The plants of this Early Branching Aster attain the size and vigor of the famous American Branching, but bloom from 10 days to 2 weeks earlier. Extra large, perfectly formed flowers on long, stiff stems make them especially desirable for cutting, for exhibitions or for sale.

118 Lavender. 119 White. 120 Shell Pink. 121 Crimson. 122 Mixed. Each, Pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 75 cts.

124 WORCESTER MIXTURE. Our own mixture of the leading choice varieties includes every color and shade known among Asters, and will afford, especially if purchased in bulk, the greatest discovery of both colors and types. Purchaser of a single packet may be certain of securing a choice collection of desirable varieties. Pkt. 10 cts., 1/8 oz. 40 cts., 1/4 oz. 75 cts., oz. \$2.75.

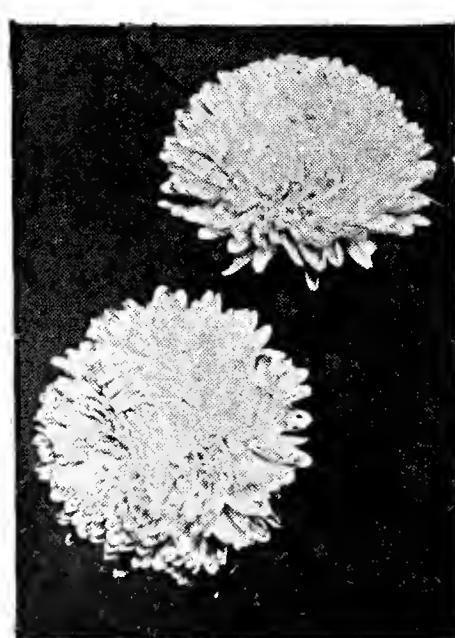
125 GOOD MIXED. Our own mixture of many varieties; a wide range of colors. Pkt. 10 cts., 1/8 oz. 30 cts., 1/4 oz. 50 cts., oz. \$1.75.

ASTERMUM. A strain of Giant Comet Asters which, on account of their immense size and Chrysanthemum-like appearance, have appropriately been named Astermums. The plants grow about 2 feet high with long, strong stems and should come into bloom about the middle of August.

126 White. 127 Pink. 128 Lavender. Pkt. 10 cts.



Queen of the Market



American Branching

# ANNUAL FLOWER SEEDS

## Acroclinium

### Everlasting Flower

A half-hardy annual, bearing attractive white and rose-colored single and double flowers chiefly used when dried for winter bouquets and wreaths. For this purpose, flowers should be cut before fully expanded. 1 1/4 feet.

139 **Light Rose and Pure White.**  
Mixed. Pkt. 10 cts., 1/4 oz. 20 cts.

## Ageratum

One of the best hardy annuals for summer bedding flowers. Easily grown from seed, which should be sown in the house, as it lengthens the time of blooming, which continues until frost.

Set the dwarf kind 10 inches apart, and they soon make a mass of color.

148 **MEXICANUM.** Blue, 1 1/2 feet.  
Pkt. 10 cts., 1/4 oz. 30 cts., oz. 80 cts.

149 **MEXICANUM ALBUM.** White, 1 1/2 feet. Pkt. 10 cts., 1/4 oz. 30 cts., oz. 80 cts.

150 **IMPERIAL DWARF WHITE.** 8 inches. Pkt. 10 cts., 1/4 oz. 30 cts., oz. 80 cts.

151 **LITTLE DORRIT.** Azure-blue. 8 inches. Pkt. 10 cts., 1/4 oz. 30 cts., oz. 80 cts.

152 **IMPERIAL DWARF BLUE.** 8 inches. Pkt. 10 cts., 1/4 oz. 30 cts., oz. 80 cts.

153 **LITTLE BLUE STAR.** A miniature variety with beautiful mauve flowers. 5 inches. Pkt. 10 cts., 1/8 oz. 60 cts.

154 **BLUE PERFECTION.** Large heads of Amethyst-blue flowers; plant of very even growth, about 8 inches high. Pkt. 10 cts., 1/8 oz. 25 cts.

158 **MIXED COLOR.** All varieties mixed. Pkt. 10 cts., 1/2 oz. 30 cts., oz. 55 cts.

## Agrostemma

Pretty, free-blooming plants of easy culture, especially desirable for dry situations. Excellent for cutting.

160 **COELI-ROSA.** (Rose of Heaven.) Rose, white center. Hardy annual. 1 1/2 feet. Pkt. 10 cts.

## Alyssum

A well-known favorite, hardy annual, blooming profusely the entire season. Excellent for edging. No other white flower is so well adapted for a dense, low carpet, or as borders and ribbons in garden work. Extremely fragrant and frequently used for bouquets. Sow seed early in April.

166 **SWEET ALYSSUM.** Fragrant, white, 1 foot. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

167 **LITTLE GEM.** Of spreading habit, forming compact masses of bloom often a foot or more in diameter. White, fragrant, 6 inches. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

168 **CARPET OF SNOW.** Of very dwarf habit; white, fragrant, 4 inches. Pkt. 10 cts., 1/4 oz. 30 cts., 1/2 oz. 50 cts.

169 **LILAC QUEEN.** Beautiful soft lilac flowers changing to white as they age. Pkt. 10 cts., 1/8 oz. 25 cts.

171 **LITTLE DORRIT.** Little bushes fairly smothered with miniature white flowers. A gem for edging and beds 4 inches high. Pkt. 10 cts., 1/4 oz. 38 cts., oz. \$1.25.

## Amaranthus

Brilliantly colored foliage, and bearing peculiarly formed flowers. While in rich soil the plants and leaves are much larger, the colors are seldom as brilliant as when grown on rather poor soil. Of easiest culture. Give plenty of room to develop.

175 **CAUDATUS.** (Love-Lies-Bleeding.) Long, drooping flower, blood red. Half-hardy annual. 2 feet. Pkt. 10 cts.

178 **TRICOLOR SPLENDENS.** (Joseph's Coat.) Red, yellow and green foliage. One of the most beautiful of ornamental-leaved plants. Hardy annual. 2 feet. Pkt. 10 cts.



Sweet Alyssum, Fine for Edging

## Anchusa

185 **CAPENSIS.** (Cape Forget-me-not.) Attractive annual with azure blue flowers. 1 1/2 feet. Pkt. 10 cts.

## Antirrhinum (Snapdragon)

One of the most beautiful and useful bedding plants, blooming profusely throughout the summer. Fine for cutting.

191 **SILVER PINK.** A splendid commercial variety, long-stemmed, large flowered, delicate rosy pink, seemingly covered with a silver sheen. Pkt. 10 cts., 1/16 oz. 30 cts.

192 **VENUS.** A bright pink on white ground, set off by pure white throat. Pkt. 10 cts., 1/8 oz. 35 cts.

Tall Varieties: 193 Rose. 194 Crimson. 195 White. 196 Yellow. 197 Mixed. Pkt. 10 cts., 1/8 oz. 20 cts., oz. \$1.00.

198 **Grandiflora.** Giant varieties. Mixed, pkt. 10 cts., 1/4 oz. 35 cents.

199 **Dwarf Varieties.** Mixed colors. Pkt. 10 cts., 1/4 oz. 35 cts.

## Asparagus

216 **PLUMOSUS NANUS.** Beautiful house plants. The feathery foliage is unrivaled for cutting. Pkt. 25 cts., 100 seeds \$1.00.

217 **SPRENGERI.** Excellent plants for table decorations. Pkt. 15 cts.

## Balsam

This old favorite annual, sometimes known as Lady's Slipper, has been continually improved for several years. Requires rich soil, full exposure to the sun and plenty of water to be grown to perfection, but is otherwise of easy culture. Seed of improved types, producing a large proportion of double flowers; 2 feet.

225 **IMPROVED CAMELLIA-FLOWERED, MIXED COLORS.** Double flowers of the finest type and a wide range of beautiful colors. Pkt. 10 cts., 1/4 oz. 40 cts.

227 **DOUBLE DARK RED.** Beautiful rich color. Pkt. 10 cts., 1/4 oz. 40 cts.

228 **DOUBLE PINK (PRINCE BISMARCK).** Pkt. 10 cts., 1/4 oz. 40 cts.

230 **CHOICE MIXED.** Double flowers of many colors. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 75 cts.

## Balloon Vine

235 A tender annual climber of rapid growth, bearing small white flowers, followed by curious inflated seed-vessels, somewhat resembling a balloon. 10 to 15 feet. Pkt. 10 cts.

## Bartonia Aurea

236 Showy, hardy annual of distinct character, its golden yellow flowers being freely produced. It grows well in partial shade, but should not be crowded. Pkt. 10 cts.

# ANNUAL FLOWER SEEDS

## Beans, Ornamental Varieties

The Scarlet and White Runner Beans are deservedly popular as ornamental climbers, as but few plants grow so rapidly, and none is more easily grown. The former is largely grown alone for ornament, but all are very attractive. The beans of the White Runner are used in some localities as green shell beans. Scarlet are also edible, but seldom used. All should be treated as directed for Pole Beans.

240 **SCARLET RUNNER.** Pkt. 10 cts.

241 **WHITE RUNNER.** Pkt. 10 cts.

**BLUE LACE FLOWER.** See Didiscus.

## Brachycome—(Swan River Daisy)

A free-flowering plant of dwarf, compact growth, bearing in great profusion beautiful single blue or white flowers. Effective as edgings or in beds, and suitable for rustic baskets or pot culture. Half-hardy annual; 1 foot.

250 **Mixed Colors.** Pkt. 10 cts.

## Browallia

A beautiful, free-blooming half-hardy annual. Seed may be sown in the open ground when warm, but preferably should be sown in the house or hotbed and, if possible, repotted once or twice. For beds, borders or pots, few equal it; 1½ feet.

251 **Blue and White Mixed.** Pkt. 10 cts.

## Calendula—(Pot Marigold)

A very free-blooming hardy annual of easy culture. Grows well in nearly all soils. Flowers double; borne on stiff stems, and are cut to some extent, but the plant is more desirable for bedding. 1 to 1½ feet.

252 **CAMPFIRE OR SENSATION.** Improved Strain. This is much taller growing and the flowers are much larger than Campfire or Sensation sent out in previous seasons. We consider this variety the very best forcing orange Calendula on the market. Pkt. 10 cts., ¼ oz. \$1.00, ½ oz. \$1.75.

254 **RADIO.** Improved Strain. A special selection of large flowering, well-formed Radio type flowers, borne on long, stout stems—a strain which is more suitable for forcing than the original Radio. Pkt. 10 cts., ¼ oz. 50 cts., ½ oz. 90 cts.

255 **THE BALL.** A large ball-shaped double flower. Color, bright orange, much used by florists. Pkt. 10 cts., ½ oz. 60 cts., ¼ oz. \$1.00, oz. \$2.50.

256 **ORANGE GIANT.** Extra large, orange. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

257 **ORANGE KING.** Large, dark orange. Pkt. 10 cts., ¼ oz. 30 cts., ½ oz. 50 cts.

258 **LEMON KING.** Clear lemon yellow. Pkt. 10 cts., ¼ oz. 30 cts., ½ oz. 50 cts.

259 **MIXED VARIETIES.** Pkt. 10 cts., ½ oz. 15 cts., oz. 25 cts.

## Calliopsis

Well-known, profuse flowering hardy annuals of the easiest culture. Numbers 260 and 263 represent the type more commonly known. Numbers 261 and 262 resemble in habit, foliage and flower the perennial type, generally known as Coreopsis.

260 **MIXED COLORS.** 1½ to 2 feet. Pkt. 10 cts., ½ oz. 30 cts., oz. 50 cts.

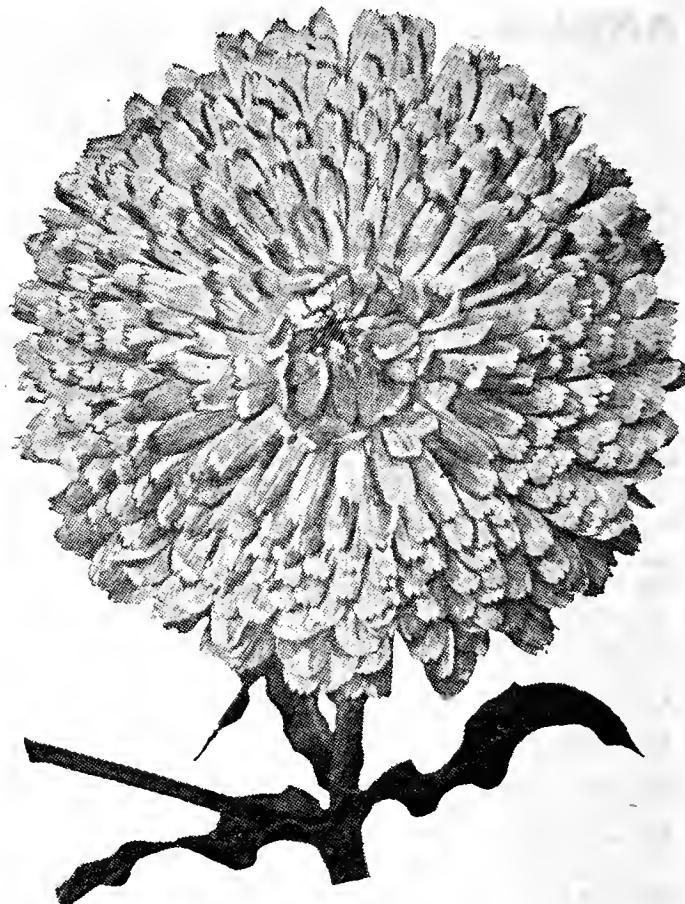
261 **CORONATA MAXIMA.** Yellow; extra large. 1½ feet. Pkt. 10 cts., ¼ oz. 20 cts.

262 **GOLDEN WAVE.** (Drummondii.) Golden yellow with small dark center. 1½ feet. Pkt. 10 cts., ¼ oz. 20 cts.

263 **RAY OF GOLD.** Yellow, with purplish brown center, 6 to 8 inches. Pkt. 10 cts., ¼ oz. 20 cts.

## Canary Creeper (Tropaeolum Canariensis)

275 A rapid-growing, half-hardy annual climber, bearing curiously formed yellow flowers. Blooms until frost. Fine for shady places. 10 to 15 feet. Pkt. 10 cts., ¼ oz. 20 cts.



**Campfire Calendula**

## Candytuft

Popular hardy annual, growing in any soil, requiring but little care, and by repeated sowings may be had in bloom all summer. 6 inches to 1 foot.

276 **CARMINE.** Pkt. 10 cts., ¼ oz. 20 cts., ½ oz. 35 cts.

277 **DARK CRIMSON.** (Dunnett's.) Pkt. 10 cts., ¼ oz. 20 cts., ½ oz. 35 cts.

278 **EMPRESS.** Large trusses; pure white. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts.

279 **GIANT HYACINTH-FLOWERED.** Heads of immense size, resembling the Hyacinth. White. Generally considered superior to Empress. Pkt. 10 cts., ½ oz. 20 cts., ¼ oz. 35 cts., oz. \$1.00.

280 **MIXED COLORS.** Pkt. 10 cts., ¼ oz. 20 cts., oz. 60 cts.

281 **QUEEN OF ITALY.** Of dwarf, bushy habit. Large pink flowers; fine, 6 inches. Pkt. 10 cts., ¼ oz. 25 cts., ½ oz. 40 cts.

282 **DWARF HYBRIDS.** Mixed colors. Of dwarf habit, but flowers are large. Pkt. 10 cts., ¼ oz. 20 cts., ½ oz. 35 cts.

283 **WHITE FRAGRANT.** Pkt. 10 cts., ¼ oz. 20 cts., oz. 60 cts.

## Canna

The Crozy Cannas are well known for their dwarf growth and luxuriant foliage. The flowers are large and of most brilliant colors. Soak the seeds in warm water until they show signs of swelling, then sow in sandy loam and place in hotbed.

284 **CROZY'S DWARF.** Large flowering varieties. Mixed. 3 to 4 feet. Pkt. 10 cts., ¼ oz. 20 cts.

285 **TALL, DARK-LEAVED VARIETIES.** Mixed. Pkt. 10 cts., ¼ oz. 20 cts.

**CARDINAL CLIMBER.** See Ipomoea, number 549.

**CARDINAL FLOWER.** See Lobelia, number 588.

# ANNUAL FLOWER SEEDS

## Carnation

Well-known and very popular half-hardy perennial, which until the introduction of the Marguerite class was mainly grown by the florists in the greenhouses and occasionally by the amateur in pots in the house. The Marguerite class, including the original and later introduction of similar type, are treated as annuals, blooming in about four months from seed, which may be sown in the open ground early in the spring, usually by May 1, but preferably earlier in the house, and plants set in the open about the middle of May, as this greatly lengthens the period of blooming. By cutting off the flower-stems early in the fall and potting the plants, they will bloom freely through the winter if kept in a cool room. The Carnation requires a rich soil, and in such the plants should stand about 12 inches apart.

286 **MARGUERITE IMPROVED SEMI-DWARF.** An improved strain, blooming four months after sowing. Flowers are larger, a greater proportion double and the variety of colors much greater than those of the original. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

287 **MARGUERITE GIANTS.** Flower approaches in form, size, fragrance and beauty those grown by the florist. Great variety of color. Blooms four months after sowing. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

288 **CHAUBAUD'S GIANT PERPETUAL.** A new strain, remarkable for its combination of earliness with the continuity of bloom and perfection of flowers of the perpetual type. Blooms four or five months after sowing. Flowers large, a high percentage double. Deliciously fragrant and greatly varied in coloring. **Pkt. 15 cts.**

290 **DWARF VIENNA.** Blooms early the second summer from seed. The hardiest sort, said to stand the winter with slight protection. Flowers large, double, fragrant and of varied colors. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

292 **DOUBLE-FINE MIXED.** A choice strain of the regular type, blooming the second year from sowing. Most desirable for house culture. **Pkt. 10 cts.**

## Castor Bean (*Ricinus*)

Well-known tender annual; tall, stately, majestic plants of very rapid growth, with palmlike leaves of glossy green, brown or bronze hue; very effective for lawns, planted singly or in groups, 6 to 15 feet.

295 **BORBONIENSIS.** Large, showy foliage of purplish hue. 15 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.**

296 **CAMBODGENSIS.** Stalks and stems nearly black; leaves large, of a deep bronze maroon. 6 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts., oz. 35 cts.**

297 **SANGUINEUS.** (Tricolor.) Stalks blood-red, foliage reddish bronze, with scarlet seedpods. 6 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts., oz. 35 cts.**

298 **ZANZIBARENSIS.** A comparatively new class, with gigantic leaves, ranging in color from light green to deep bronze. 10 to 15 feet. Mixed varieties. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts., oz. 35 cts.**

299 **GIBSONI.** Large dark-red leaves. 5 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts., oz. 35 cts.**

300 **All Varieties Mixed.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 15 cts., oz. 25 cts.**

## Cockscomb (*Celosia cristata*)

Popular free-blooming, half-hardy annual. While seeds may be, and more generally are, sown in the open ground, for best results it should be sown early in the house and the young plants transplanted into small pots, in which they should remain until they show signs of blooming, when they should be shifted to a permanent location. The Cockscomb requires good, rich soil, ample room and plenty of moisture to fully develop its flowers.

305 **GLASGOW PRIZE.** Crimson; dark foliage. 9 inches. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

307 **MIXED.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.**

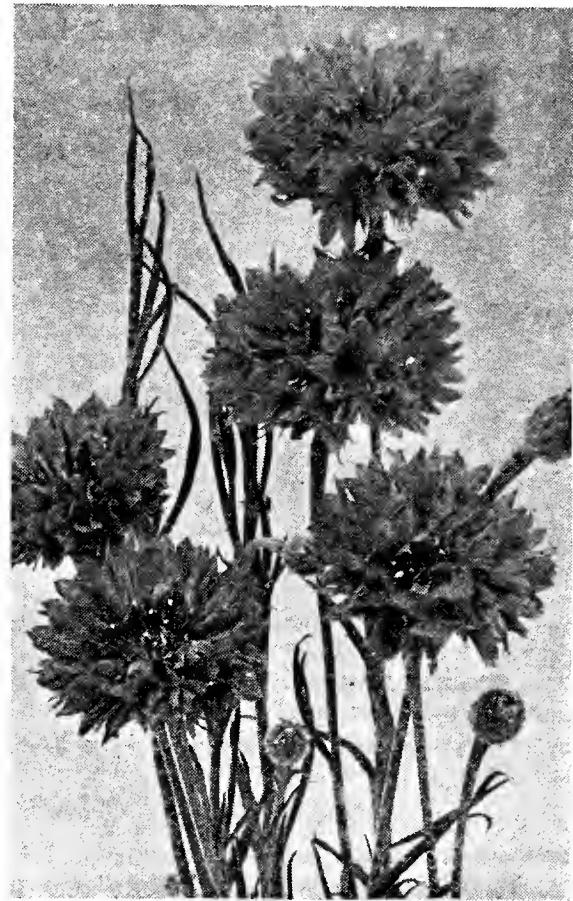
310 **DWARF, EXTRA-CHOICE MIXED.** Includes all the latest introductions and colors of the Cockscomb. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Feathered Celosia (*Celosia plumosa*)

Often used for winter bouquets, and for this purpose should be cut before fully ripe and dried in the house. This class requires the same treatment as the preceding half-hardy annual. 1 to  $1\frac{1}{2}$  feet.

311 **THOMPSON SUPERB.** Graceful, feathery plumes of rich crimson, which contrast beautifully with the purplish bronze foliage. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.,  $\frac{1}{4}$  oz. 35 cts.**

312 **GOLDEN PLUME.** Golden Yellow. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.,  $\frac{1}{4}$  oz. 35 cts.**



Centaurea (Bachelor's Button)

313 **THOMPSONIA MAGNIPICA.** A splendid strain, large plumes, ranging from clear yellow to darkest red. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

316 **CHOICE MIXED.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 50 cts.**

## Centaurea

To this family belongs the well-known annuals, Bachelor's Button and Sweet Sultan, and also the plants known as Dusty Millers.

**CYANUS.** (Bachelor's Button, or Cornflower.) Popular hardy annual of the easiest culture, blooming quickly after seed is sown and for a considerable time if flowers are kept well cut. 2 feet.

317 **DOUBLE BLUE.** A selection of the old-fashioned Bachelor Button, producing a large percentage of beautiful double blue flowers. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.**

318 **DOUBLE LILAC.** 319 **DOUBLE WHITE.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.**

320 **SINGLE and DOUBLE MIXED.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.**

321 **MOSCHATA.** (Common Sweet Sultan.) Mixed colors. **Pkt. 10 cts.**

322 **SUAVEOLENS.** (Yellow Sweet Sultan.) **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.**

**IMPERIALIS.** (Royal Sweet Sultan.) A new and greatly improved type of Sweet Sultan. Both plants and flowers are much larger than the common. The flowers are borne on long, stiff stems and will last for several days after cutting. They are very fragrant and colors delicate and beautiful.

323 **DEEP LAVENDER.** 324 **WHITE.** Each, **pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

325 **MIXED COLORS.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

**WHITE-LEAVED CENTAUREAS.** (Dusty Miller.) Half-hardy perennials which are grown annually from their seed for their foliage only. Used with other foliage and flowering bedding plants.

326 **CANDIDISSIMA.** Deeply cut, silvery white foliage, densely covered with white hairs. 1 foot. **Pkt. 10 cts.**

327 **GYMNOCARPA.** Silvery-white foliage; of graceful drooping habit.  $1\frac{1}{2}$  feet. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.**

# ANNUAL FLOWER SEEDS

## Chinese Woolflower

**CELOSIA CHILDSII.** Its ease of culture and long continued blooming season (July until frost) together with its massive bunches of wool-like flowers and glowing colors combine to make it the most odd as well as the showiest novelty for the general flower garden. Plants grow about three feet high. Seed may be sown in open, after danger from frost, or sown in pots; may be transplanted when ground is ready.

329C **MIXED COLORS.** Each, pkt. 20 cts., 3 pkts. 50 cts.

## Chrysanthemum

Free-flowering plants of branching habit, grow freely from seed, and are of easy culture, very desirable for cutting. They should be given plenty of room—from 2 to 2½ feet. Hardy annual. 1 to 1½ feet.

330 **SINGLE.** (Painted Daisies.) Mixed colors. **Pkt. 10 cts., ¼ oz. 20 cts., oz. 60 cts.**

331 **EVENING STAR.** Covered with bright golden yellow single flowers. **Pkt. 10 cts., ½ oz. 20 cts.**

333 **DOUBLE WHITE.** **Pkt. 10 cts., ½ oz. 20 cts.**

## Cineraria—(Hybrida Grandiflora)

294 **ROSS' PRIZE MIXTURE.** The plants are of compact growth, carrying extra large flower heads with flowerets of unusual size and substance. This strain includes the brightest and richest self colors as well as a good mixture of all colors. **Pkt. 25 cts.**

## Clarkia

A pretty, hardy annual from California, much improved in recent years. Blooms profusely in either sun or partial shade. Colors: Rose, salmon-pink, purple and white, in mixture. 1 foot.

338 **Single and Double Mixed.** **Pkt. 10 cts., ¼ oz. 30 cts.**

## Cleome "Giant Spider Plant"

343 **GIGANTEA ROSEA.** A showy garden annual producing curious heads of flowers of bright rose color with long antennae-like stamens; of easy cultivation, blooming early until late. 4 to 5 feet. **Pkt. 10 cts.**

## Cobaea

345 **SCANDENS.** (Climbing Cobaea.) (Cathedral Bells.) A beautiful, rapid-growing, half-hardy perennial climber, blooming the first year from seed, bearing large bell-shaped flowers; at first green, but changing to a beautiful deep violet-blue. A clean porch climber, free from insects. Sow early in the house and pot the plants, as this greatly lengthens the period of bloom, and the plants will make a much greater growth. Seed germinates more readily if pushed into the ground edgewise and barely covered. 20 to 30 feet. **Pkt. 10 cts., ¼ oz. 30 cts.**

## Coix Lachryma—(Job's Tears)

347 An ornamental grass growing from 7 to 9 feet high. Large broad leaves bearing large shiny seed. **Pkt. 10 cts., ¼ oz. 25 cts., oz. 35 cts.**



Chrysanthemum

## Coleus

Popular ornamental foliage plants, usually propagated by cuttings, but easily grown from seed, from which many new varieties may be expected, affording an interesting experiment to the amateur. Sow in heat in March or April and transplant to open ground about the first of June. For borders of geranium or canna beds and in carpet-bedding very useful. Grows rapidly.

350 **Choice Hybrids, Mixed.** From a large collection; of greatly diverse shades and markings. **Pkt. 10 cts.**

351 **New Large-Leaved Varieties, Mixed.** Saved from new varieties with very large and richly variegated foliage. **Pkt. 25 cts.**

## Collinsia

A free-flowering hardy annual from California, of easiest culture and great beauty. Seed preferably should be sown in the fall, as the plants will bloom much earlier than from seed sown in the spring. It may, however, be sown in the spring, if desired. 1 foot.

353 **Mixed Colors.** **Pkt. 10 cts.**

## Convolvulus Minor—(Dwarf Morning-Glory)

Half-hardy annual of trailing habit, growing about 1 foot high and covering a space of 2 feet, and bearing abundantly bell-shaped flowers similar to those of the tall sort. Flowers open on clear days about noon and remain open until evening, are pure white and of many shades of blue and red.

356 **Mixed Colors.** **Pkt. 10 cts., ¼ oz. 20 cts., oz. 35 cts.**

## Burbank's Rainbow Corn

357 The stalks, including tassel, grow five and a half feet tall, and are clothed with many various variegated leaves three inches wide and two feet long. The leaves (both on main stalks and suckers) are all superbly striped with broad bands of crimson, yellow, rose, white and bronze. The small hardy seed can be planted early, and as it does not ripen until very late the plants present their rich tropical beauty for a long season. **Pkt. 10 cts., ¼ oz. 30 cts.**

# ANNUAL FLOWER SEEDS

## Cosmos

Beautiful autumn-blooming plants. They produce thousands of artistic flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decorations when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light not too rich soil, but do well almost anywhere.

359 **KLONDIKE.** Large orange colored flowers. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.**  
 360 **MAMMOTH PERFECTION.** Mixed colors. Flowers of mammoth size, rather late in flowering; seed should therefore be sown as early as possible in the house in March, or, as the plant is especially hardy, in the open ground in a sheltered spot in April. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.**

362 **LARGE EARLY FLOWERING.** In the New Large Early Flowering we have a strain which combines the desired features of good size and early production. The flowers are fully twice as large as the Early-Flowering, while the plant blooms as early. Crimson, Rose and White Mixed. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.,  $\frac{1}{2}$  oz. 55 cts., oz. \$1.00.**

362A **Crimson.** 362B **Pink.** 362C **White.** **Each, pkt. 10 cts.**  
**LADY LENOX.** Long stemmed flowers, often measuring 5 inches across. Unsurpassed for garden decoration and cut flowers. 6 to 7 feet.

364 **Pink.** 364A **White.** **Each, pkt. 10 cts.,  $\frac{1}{4}$  oz., 30 cts., oz., \$1.00.**

## Double Crested Cosmos

These hybrids form bushy plants 5 to 6 feet high and flower profusely during the autumn months. Only 40 or 50 percent of the plants will bear double flowers, the balance producing large single blossoms, the reason being that the double flowers are pistillate—having no stamina and consequently bear no pollen—so to produce seed must depend on staminate singles of pollination. The progeny thereof comes about half doubles and half singles. Double Cosmos flowers aside from their novelty and beauty are of lasting substance, both on the plants and as cut flowers.

365 **CRIMSON KING.** Dark crimson.

365A **PINK BEAUTY.** Soft pink.

365B **WHITE QUEEN.** Pure white.

365C **WHITE, PINK AND CRIMSON MIXED.** **Each 20 cts. per pkt.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.,  $\frac{1}{2}$  oz. \$1.00, oz. \$1.75.**

## Ross' Giant Cyclamen

Charming house plants, with beautiful foliage and rich colored, fragrant flowers. Universal favorites for winter and spring blooming. May be successfully raised from seed with a little care and patience.

369 **Giant Mixed.** **Pkt. 50 cts.**

## Cynoglossum

369A **AMABILE.** An easily grown, early-flowering annual producing large sprays of rich blue, Forget-me-not-like flowers, excellent for cutting. 18 inches. **Pkt. 10 cts.**

## Cypress Vine

A popular climbing vine, with delicate fern-like foliage, bearing in abundance small, star-shaped, rose, scarlet, or white flowers. Of easy culture. Half-hardy annual. 10 to 12 feet.

370 **Mixed Colors.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.**



Early Flowering Cosmos

## Daisy

It has always seemed to us unfortunate that the English Daisy (*Bellis perennis*) should have been given its common name as we are quite sure that nearly every one instinctively associates with the term "daisy" or "daisy-like," flowers which resemble in form and habit our common field daisy.

376 **AFRICAN GOLDEN.** (*Dimorphotheca Aurantiaca*) This very showy annual plant is a valuable addition to the list of hardy annuals. When first exhibited, it gained an Award of Merit at the great Temple Show, London, has been very favorably mentioned in the leading horticultural papers of this country and Europe, and all who have seen the plant in bloom praise it. A bed of these plants is remarkably effective, and the flowers are excellent for cutting, while the plant is easily grown from seed sown in the open ground.  
**Pkt. 10 cts., 1/16 oz. 25 cts.**

## Datura

**DATURA.** (Trumpet Flower.) Strong growing ornamental annual shrubs. Flowers trumpet shape, large and fragrant.

383 **FINEST MIXED.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**

## Delphinium—(Larkspur)

Showy, hardy annuals thriving in nearly all soils if well enriched and open to the sun. Seed of the annual sorts, though more generally sown in the spring, should preferably be sown in autumn, as plants commence blooming much earlier.

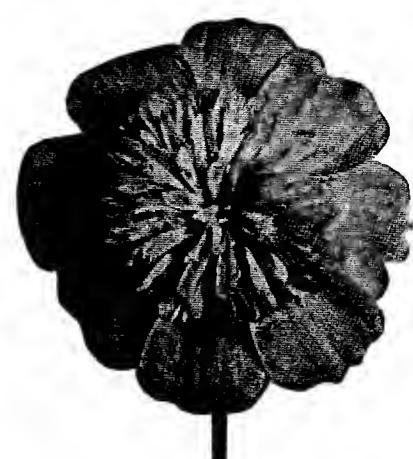
385 **DOUBLE DWARF ROCKET.** 1 foot. Mixed colors. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 40 cts., oz. 70 cts.**

**DOUBLE BRANCHING.** 387 Carmine. 388 Dark Blue. 389 Light Blue. 390 White. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.,  $\frac{1}{2}$  oz. 70 cts.**

391 **DOUBLE IMPERIAL BRANCHING.** Mixed colors. A superior strain. 2 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.**

392 **CARMINE KING** (new). Deep Carmine Rose. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.,  $\frac{1}{4}$  oz. 55 cts.,  $\frac{1}{2}$  oz. \$1.00.**

392A **MISS CALIFORNIA** (new). Rich, deep pink on salmon ground. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.,  $\frac{1}{4}$  oz. 55 cts.,  $\frac{1}{2}$  oz. \$1.00.**



Double Crested Cosmos

EEZY WEAR GARDEN GLOVES IN FOUR SIZES. See page 114.

# ANNUAL FLOWER SEEDS

## Dianthus

419 **SWEET WIVELSFIELD.** A new race of hardy annuals. The growth is like Sweet William but the flowers are larger and have a much wider range of colors. It is distinct in habit and freedom of growth and may be treated either as an annual or a biennial. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

## Didiscus

420 **COREULEUS.** (Blue Lace Flower.) An attractive annual, blooming from July until frost. The flowers are pale lavender and are valuable for cutting. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

## Dolichos—(Hyacinth Bean)

A rapid-growing hardy, annual climber, bearing all summer clusters of white or purplish blue flowers, followed by ornamental seed-pods. Sow in May where plants are to remain. 10 feet.

433 **Mixed Colors.** White and purple. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**

## Dracaena—(Dragon Plant)

434 **INDIVISA.** Beautiful ornamental-leaved plants; long narrow, green foliage; indispensable for vases and house decoration. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

## Eschscholtzia—(California Poppy)

A very showy hardy annual, with beautiful, finely cut, glaucous foliage, bearing poppy-like flowers of bright colors. Of easy culture. Sow as early as soil can be worked, where plants are to remain, as they do not bear transplanting well. 1 foot.

439 **CALIFORNIA.** Yellow. **Pkt. 10 cts.**

442 **MIXED COLORS.** **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.**

443 **ERECTA COMPACTA. ROSE QUEEN.** Rose carmine. **Pkt. 10 cts.**

## Euphorbia

Ornamental foliage plant; easily grown from seed. Striking and effective appearance. Hardy annual.

452 **VARIEGATA.** (Snow-on-the-Mountain.) Foliage-veined and margined with white. 2 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

453 **HETEROPHYLLA.** (Fire on the Mountain.) A variety of Poinsettia which grows to a height of 2½ to 3 ft. About the middle of summer the top central leaves turn to rich orange scarlet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Four O'Clock—(Marvel of Peru)

A well-known favorite plant, bearing freely funnel-shaped, white, red and striped flowers, which open about four o'clock in the afternoon. Will grow anywhere. Plants should be given plenty of room, about 2 feet apart. Hardy annual. 2 feet.

465 **Mixed Colors.** **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.**

**FOXGLOVE.** See Digitalis. Page 55.

## Gaillardia

### ANNUAL VARIETIES (Blanket Flower)

Very showy, free-blooming, hardy plants of easy culture. Seed germinates very slowly and should be sown in the house in March. The flowers are very brilliant, borne on long stems. Fine for cutting. 2 feet.

470 **PICTA.** Single; mixed colors. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**

471 **PICTA.** Double; mixed colors. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**



California Poppy

## Geranium

Well-known, half-hardy, greenhouse perennials, easily raised from seeds. Seeds sown in the fall or early winter will produce flowers in June, while from that sown in March, plants will not bloom until September, and from seed sown in the open ground in May or June plants will bloom in mid-winter.

485 **ZONALE.** (Fish or Horseshoe Geranium.) Saved from the largest and finest varieties. **Pkt. 10 cts.**

## Globe Amaranth—(Gomphrena)

488 **MIXED COLORS.** A tender annual plant, bearing globe-shaped ever-lasting flowers, often used, when dried, in winter bouquets. Blooms freely and is an excellent bedding plant. 1½ feet. **Pkt. 10 cts.**

## Gloxinia

One of the most beautiful greenhouse perennials. May be successfully grown by the amateur. Give them a porous and well-enriched soil; a warm, moist atmosphere, and as soon as they begin to flower remove them to a cooler house, and afterwards dry them off gradually and keep them free from moisture till they again begin to grow. The seeds are small and should be sown on an even surface and slightly covered.

489 **SPLENDID MIXTURE.** A mixture of all classes unrivaled in richness of colors. **Pkt. 25 cts.**

## Godetia

A showy and beautiful hardy annual, bearing fairly large delicately shaded, satiny flowers; of easy culture, blooms best in rather poor soil. Seed may be sown in the open ground, or sown in the house in March and transplanted to the open ground as soon as danger from frost is past. The plants require plenty of room. Close planting weakens them.

490 **MIXED COLORS.** Tall. Includes all varieties and the latest introductions. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**

## Gourds

Ornamental, tender annual climbers, 10 to 20 feet.

491 **Apple-shaped.** Small, striped. **Pkt. 10 cts.**

492 **Dipper.** The fruit is of slender, neck-like form. **Pkt. 10 cts.**

493 **DISH-CLOTH.** Fruit large and elongated. **Pkt. 10 cts.**

494 **Egg-shaped.** **Pkt. 10 cts.**

496 **Miniature Bottle shaped.** **Pkt. 10 cts.**

497 **Orange-shaped.** **Pkt. 10 cts.**

498 **Pear-shaped.** Green, white-striped. **Pkt. 10 cts.**

500 **Mixed Varieties.** Small sorts. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts.**

# ANNUAL FLOWER SEEDS

## Gypsophila

(Baby's Breath)

Very useful, free-blooming plants of easiest culture. Flowers very small, borne in loose, graceful panicles. Very largely used in bouquets with other cut-flowers, such as Sweet Peas, Roses, Carnations, etc. 2 feet.

501 ELEGAN'S DEEP PINK. H. A. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.

505 ELEGANS GRANDIFLORA ALBA. White. An improved form of the annual Gypsophila. Grown by the acre for the London and Paris flower markets. Blooms quickly after sowing; several sowings should be made. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.,  $\frac{1}{4}$  lb. \$1.50,  $\frac{1}{2}$  lb. \$2.50.

## Grevillea

507 ROBUSTA. (Silk Oak.) The graceful evergreen, fern-like foliage combines admirably with palms and other massive-leaved plants. Excellent for table decorations. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

## Helichrysum

(Straw Flower; Everlasting)

One of the best everlasting flowers and an effective bedding plant, succeeding in any well enriched soil. If flowers are desired for winter use, they should be cut just as the buds are opening. Hardy annual. 2 feet.

515 DOUBLE MIXED COLORS. (H. monstrosum fl. pl.) Largest double flowers. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.,  $\frac{1}{2}$  oz. 40 cts.

## Heliotrope

A well-known and favorite plant, largely grown in pots, but thriving in the open border; usually grown from cuttings, but grows readily from seed, blooming the first season if sown early. Half-hardy perennial.

518 Mixed Colors. All shades. Pkt. 10 cts.

519 Large-flowering. Mixed colors. Heads of flowers nearly double the size of the old sorts. Pkt. 10 cts.

## Hibiscus

Vigorous-growing plants, producing large, handsome flowers, often six inches across. Very desirable for mixed beds or borders.

526 SUNSET or GOLDEN BOWL. Hardy annual, yellow, 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

## Hollyhock

534 EVERBLOOMING HYBRIDS. (Annual Hollyhocks.) Double, Semi-Double and Single. Mixed. A new strain, blooming the first season from seed. Plants from seed sown inside in March or April will bloom in July and those from seed sown in the open ground in August, and, both cases, continuously until frost if main stem is pinched off when 3 or 4 feet high. Pkt. 10 cts.

## Humulus—(Hop)

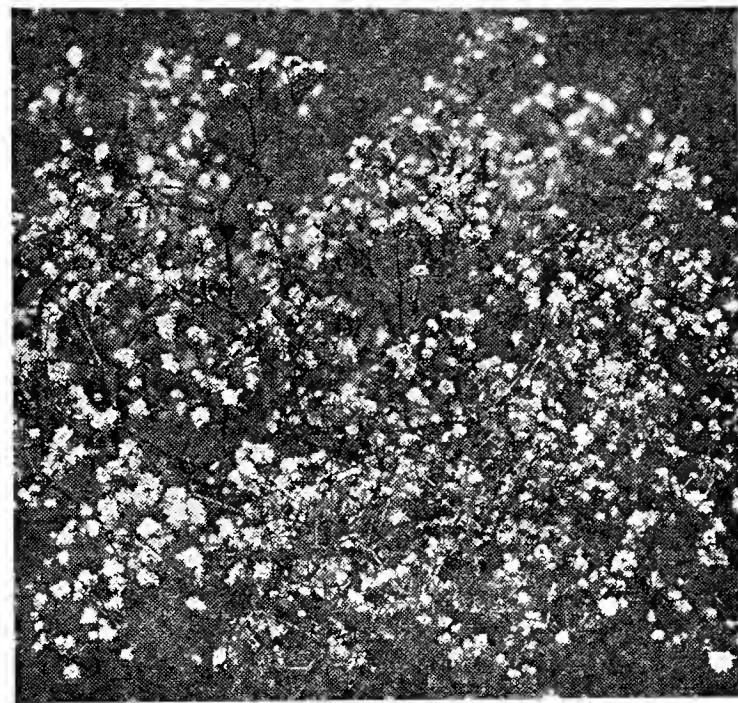
Rapid-growing climbers with attractive foliage, especially valuable because seldom injured by insects or drought. The Japanese variety is a hardy annual and among the best for quickly covering unsightly objects.

537 VARIEGATA. Variegated foliage, green and white. Pkt. 10 cts.

## Hunnemannia

540 FUMARIAEFOLIA. (Giant Tall Poppy, or Bush Eschscholtzia.) A valuable plant of the Poppy family. A perennial, always treated as an annual, blooming by middle of July and from seed sown early in May, and continually until frost. The large flowers are of a deep, rich yellow, borne on very long stems. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

HYACINTH BEAN. See Dolichos.



Gypsophila (Baby's Breath)

## Ice Plant—(Mesembryanthemum)

546 CRYSTELLINUM. A trailing plant, with succulent stems and leaves. Excellent for hanging baskets and rockwork. Tender annual. 9 inches. Pkt. 10 cts.

## Ipomoea

The Ipomoea family includes the well-known Morning Glory, the Moonflower and the Cypress Vine. Rapid-growing climbers of easiest culture; bloom earlier and more profusely on rather poor soil, but of higher growth and more attractive foliage when grown on rich soil. Tender annuals. 15 to 30 feet.

549 CARDINAL CLIMBER. (Ipomoea Quamoclit Hybrida.) Leaves are dark green, fern-like and deeply laciniate; bears a great profusion of fiery, cardinal red flowers which are about  $1\frac{1}{2}$  inches in diameter. It delights in a warm, sunny situation and good soil. In order to have good germination of the seed a small notch should be filed or cut in each seed. Pkt. 10 cts.

550 BONA NOX. (Evening Glory.) Beautiful, large, violet-blue flowers which open at night. Of extremely rapid growth. Pkt. 10 cts.

552 SETOSA. (Brazilian Morning Glory.) Flowers are a pleasing rose, about  $2\frac{1}{2}$  inches across, of delicate satiny texture and borne in clusters, but one or two in each cluster opening at once. Pkt. 10 cts.

553 RUBRA COERULEA. (Heavenly Blue.) Large, heart-shaped leaves; flowers 4 to 5 inches across, borne in clusters and in such profusion as to nearly cover the foliage; bright sky-blue. Pkt. 10 cts.

## Jerusalem Cherry—(Solanum)

An ornamental and interesting genus of fruit-bearing plants; singularly bright in fruit and foliage. Popular for greenhouse or house decoration.

555 SOLANUM CAPSICASTRUM. Covered with scarlet fruit during the winter. One and one-half feet. Pkt. 10 cts.

## Kochia

556 TRICOPHYLLA. (Summer Cypress.) A very quick-growing annual; cultivated for its beautiful foliage, which is feathery and fine as moss. Through the summer this is bright green, but commences in early fall to gradually take on a red tinge, becoming entirely red before it dies. Seeds may be sown in the open ground about May 1,  $2\frac{1}{2}$  feet. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.

JOE'S TEARS. See Coix Lachryma.

# ANNUAL FLOWER SEEDS

## Lantana

A favorite plant of rapid growth, blooming continually through the summer; desirable for the garden or house. Tender perennial. 2 feet.

562 Mixed Colors. Pkt. 10 cts.

## Lavatera Tremestrus

Beautiful and effective hardy annual, covered during the entire summer with pretty and showy blossoms.

576 Rose Pink. 577 White. Pkt. 10 cts., 1/4 oz. 20 cts.

## Linum—(Scarlet Flax)

580 GRANDIFLORUM. (Scarlet Flax.) Hardy annual of slender habit, bearing in profusion brilliant scarlet-crimson flowers. An effective bedding plant. 1 foot. Pkt. 10 cts., 1/4 oz. 25 cts.

## Lobelia

Pretty little plants of easy culture, blooming profusely from June until frost. The dwarf varieties are useful for bedding and edging, the trailing variety is excellent for hanging-baskets, vases and rock-work. Half-hardy annuals.

585 CRYSTAL PALACE COMPACTA. Rich blue flowers, dark foliage. Pkt. 10 cts., 1/4 oz. \$1.00.

586 WHITE GEM. White Dwarf; very profuse. Pkt. 10 cts.

587 GRACILIS. Light blue, trailing. Pkt. 10 cts.

588 CARDINAL FLOWER. (Cardinalis.) Intense scarlet. 3 feet. Pkt. 10 cts.

LOVE-IN-A-MIST. See Nigella. Page 46.

## Lupin

590 Annual Varieties, Mixed. Easily grown plants, with long, graceful spikes of pea-shaped flowers of various colors. 2 feet. Pkt. 10 cts., oz. 35 cts.

## Marigold

Favorite annual plant, blooming the entire summer; easily cultivated. The African varieties bear large yellow or orange flowers and the plants are usually tall. The French type is of dwarf habit and flowers are striped. Hardy annual. 1 to 3 feet.

600 AFRICAN ELDORADO. Flowers very large, extremely double, of various shades of yellow. Pkt. 10 cts., 1/4 oz. 25 cts., 1/2 oz. 45 cts.

601 LEMON BALL. The largest of all Marigolds, nearly ball-shaped, pure lemon yellow. Pkt. 10 cts., 1/4 oz. 25 cts., oz. 75 cts.

602 ORANGE PRINCE. Large, rich orange. Pkt. 10 cts.

603 AFRICAN DOUBLE MIXED. All shades of the African type. Pkt. 10 cts., 1/4 oz. 20 cts., 1/2 oz. 35 cts., oz. 60 cts.

606 FRENCH DWARF DOUBLE, GOLD STRIPED. Deep brownish red, striped yellow. Pkt. 10 cts., 1/8 oz. 20 cts.

607 FRENCH DOUBLE MIXED. Shades of yellow and brown. 2 feet. Pkt. 10 cts., 1/4 oz. 20 cts.

608 LEGION OF HONOR. Single flower; golden yellow, with a large spot of crimson. Pkt. 10 cts., 1/4 oz. 25 cts.

609 SCOTCH MARIGOLD. A showy dwarf Marigold 6 to 8 in. tall, completely covered with single flowers of a bright yellow color. This is particularly attractive for edging. Pkt. 10 cts., 1/4 oz. 30 cts.

## Mathiola Bicornis—(Night Scented Stock)

610 A hardy annual with purplish red flowers, giving forth a delightful fragrance—especially toward evening. 1 foot. Pkt. 10 cts., 1/4 oz. 20 cts.



Marigold

## Mignonette (Reseda Odorata)

A well-known and popular hardy annual, prized for its delightful fragrance. Seeds sown in autumn will bloom in early spring, and when sown the last of July will come into flower in a few weeks and continue until cut down by frost.

614 GOLDEN MACHET. Long, massive spikes, with fragrant golden-yellow flowers. Pkt. 10 cts., 1/8 oz. 20 cts.

615 GRANDIFLORA. Improved, large-flowered. Sweet Mignonette. Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts.

616 DEFIANCE. Large spikes and extra-large individual florets. Pkt. 10 cts., 1/8 oz. 25 cts., oz. 75 cts.

617 GIANT PYRAMIDAL. (Crimson Giant.) Of branching growth; large, of reddish cast. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 60 cts.

618 GOLDEN QUEEN. Golden yellow. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 60 cts.

619 MACHET. Large thick spikes of reddish cast, of dwarf habit, dark foliage. One of the best for pots. Pkt. 10 cts., 1/4 oz. 25 cts.

620 PARSON'S WHITE. Nearly white. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 60 cts.

621 VICTORIA. Of deep reddish cast. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 60 cts.

622 GOLIATH. Pkt. 10 cts., 1/8 oz. 25 cts.

625 MIXED VARIETIES. The above and other varieties. Pkt. 10 cts., 1/4 oz. 20 cts., oz. 60 cts.

## Moonflower—(Ipomoea)

635 GRANDIFLORA ALBA. (Ipomoea noctiflora.) A very rapid-growing variety of Ipomoea, reaching the height of 30 feet. Large white flowers, open in the evening and on cloudy days. Germination is greatly assisted if the hard shell of the seed is cut. Pkt. 10 cts.

635B PINK HYBRID MOONFLOWER. In color, exquisite soft-lilac-pink. Of much easier cultivation than the preceding. Seeds germinate freely and plant commences to bloom profusely nearly as soon as the Morning Glory. Vines are of most rapid growth and will cover as much or more space than any other Moonflower, having enormous leaves. Blooms very profusely and will succeed wherever the Morning Glory will. Pkt. 10 cts.

# ANNUAL FLOWER SEEDS

## Morning Glory

(*Convolvulus Major*)

A well-known vine of easiest culture. Hardy annual. 10 feet.

636 **MIXED COLORS.** Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.

637 **JAPANESE GIANT MORNING GLORY.** The flowers of this strain are much larger than those of the common type, the range of colorings much greater. Germination is assisted by soaking the seed in water for twenty-four hours before sowing. Tender annual. 8 feet. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.

**MOUERNING BRIDE.** See *Scabiosa*.

**MUSK PLANT.** See *Mimulus*.

**MORNING GLORY, DWARF.** See *Convolvulus minor*.

## Nasturtium

No other annual plant combines in so great a degree ease of culture, profusion of bloom and grace and beauty of flowers as the Nasturtium. Also, it thrives on all soils except that which is very wet and succeeds on soil so poor that many other plants would fail to grow at all.

### Tall Nasturtium

(*Tropaeolum majus*)

644 **SCARLET.** Rosy scarlet.

646 **DUNNETT'S ORANGE.** Bright orange, blotched red.

648 **EDWARD OTTO.** Brownish lilac.

654 **HEMISPERICUM.** Straw-colored blotched rose.

656 **KING THEODORE.** Deep crimson-maroon; dark foliage.

658 **LUTEUM.** Clear light yellow.

662 **PEARL.** Very pale yellow, nearest approach to white.

671 **VESUVIUS.** Salmon rose, dark leaved.

Each of the preceding varieties, pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts.

672 **CHOICE MIXED.** Many varieties; a wide range of colors. Pkt. 10 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 40 cts., 1 lb. \$1.40. See also, Worcester Mixed Tall Nasturtiums.



Dwarf Nasturtium, Golden Gleam

### GIANT-FLOWERED, TALL NASTURTIUMS MIXED

673 A choice selection of the largest flowered varieties and seedlings. Especially desirable for exhibition. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts., 2 ozs. 40 cts.,  $\frac{1}{4}$  lb. 65 cts.

### Lobb's Tall Nasturtium

(*Tropaeolum Lobbianum*)

While both flowers and foliage are slightly smaller than those of the preceding common Nasturtium, this class is preferred by many because of the greater profusion of bloom and its more brilliant coloring.

675 **ASA GRAY.** Light yellow, almost white.

679 **BRILLIANT.** Dazzling scarlet.

681 **FIREFLY.** Deep orange, spotted red.

685 **GOLDEN QUEEN.** Clear, golden yellow.

687 **KING OF THE BLACKS.** Deep, rich maroon. Dark foliage.

689 **LUCIFER.** Deep scarlet. Dark foliage.

700 **LOBBIANUM.** Choicest mixed. A mixture of all varieties of this desirable class. Pkt. 10 cts., oz. 20 cts., 2 ozs., 30 cts.,  $\frac{1}{4}$  lb. 50 cts.

### Worcester Tall Mixed

705 **WORCESTER MIXED TALL NASTURTIUMS.** Our own mixture of many varieties; comprises selections from all classes, including the New Variegated-Leaved or Queen, and choice mixture from different growers. Of the greatest possible diversity of colors and types, but well-balanced, including larger proportions of the most desirable varieties. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., 1 lb. \$1.75.



Nasturtium

### Dwarf Nasturtium New Double Sweet Scented

710 **GOLDEN GLEAM.** It is hardy and free growing. The color is a most pleasing yellow. The large golden yellow flowers averaging  $2\frac{1}{2}$  to 3 in. across. They are borne on erect stiff stems six inches long. The flowers stand well above the foliage. Pkt. 20 cts.,  $\frac{1}{2}$  oz. \$1.00.

# ANNUAL FLOWER SEEDS

## Nasturtium

(Continued)

### Dwarf, or Tom Thumb Nasturtiums

While the flowers, not having as long stems, are perhaps not quite as desirable for cutting as those of the Tall Nasturtium, the Dwarf Nasturtium is not surpassed by any other annual plant for bedding, being of the easiest culture, thriving in nearly all soils and blooming profusely the entire season.

Except where otherwise noted, all of the following varieties at uniform prices. Pkt. 10 cts., oz. 20 cts., 2 ozs. 35 cts.,  $\frac{1}{4}$  lb. 60 cts.

- 712 **BEAUTY.** Orange with scarlet markings.
- 714 **BRONZE-COLORED.** A very distinct and peculiar shade.
- 718 **CLOTH OF GOLD.** Brilliant scarlet, foliage golden yellow.
- 722 **CRYSTAL PALACE GEM.** Rich, sulphur-yellow, spotted carmine.
- 724 **EMPEROR OF INDIA.** Dark scarlet, foliage distinct dark purplish green.
- 726 **GOLDEN KING.** Rich golden yellow.
- 730 **KING THEODORE.** Dark maroon; dark foliage.
- 732 **KING OF TOM THUMBS.** Rich scarlet, dark foliage.
- 736 **PEARL.** Light cream, nearly white.
- 742 **RUBY KING.** Ruby-red, dark leaved.
- 744 **VESUVIUS.** Rich salmon-pink.
- 746 **CHOICE MIXED.** While not equal to the Worcester Mixed, of wide range of colors and will give pleasing results. Pkt. 10 cts., oz. 15 cts., 2 ozs. 25 cts.,  $\frac{1}{4}$  lb. 40 cts., lb. \$1.40.

### Worcester Mixed Dwarf Nasturtium

- 747 Like the Worcester Tall Mixed, this is of our own preparation and cannot be surpassed in diversity of colors and types; includes all the named varieties and classes here described and other choice mixtures of noted growers. Pkt. 10 cts., oz. 20 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.
- 749 **VARIEGATED LEAVED, or QUEEN OF TOM THUMBS, MIXED.** A mixture of all the varieties yet named and several unnamed seedlings of this new, distinct and charming type. Of various distinct colors; shades—light primrose, deep scarlet, crimson and deep orange more or less veined or spotted with other colors. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 15 cts., oz. 25 cts.

A very valuable introduction—long blooming annual with large flowers, varying from creamy white to deep orange and carmine. Most useful for bedding.  $1\frac{1}{2}$  feet.

756 **STRUMOSA SUTTONI.** Pkt. 15 cts.

### Nemesia

#### *Nicotiana Sanderae*

Photo reproduced of plant, showing its bushy habit and great production of flowers.



### Nemophila (Love Grove)

An attractive hardy annual, bearing cup-shaped flowers about an inch in diameter, usually in shades of blue and white, often spotted with brown. Succeeds in cool, shaded places, in light but rather moist loam. 6 inches.

757 **MIXED.** Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.

### Nicotiana

(Flowering Tobacco)

Handsome, effective, half-hardy annuals, blooming profusely the entire season and thriving in all soils. Seed may be sown early in the house or in the open ground as soon as the soil is warm.

- 758 **AFFINIS.** White, star-like flowers, deliciously fragrant, expands fully in the evening. 2 to 3 feet. Pkt. 10 cts.
- 759 **SANDERAE.** Rose-carmine; remarkably profuse in bloom. Unlike the Affinis, is in full bloom during the day. 3 to  $3\frac{1}{2}$  feet. Pkt. 10 cts.
- 760 **SANDERAE HYBRIDS.** New Hybrids, comprising several distinct colors or shades. Pkt. 10 cts.

### Nigella

(Love-in-a-Mist; Lady-in-Green; Devil-in-a-Bush)

A favorite hardy annual of the easiest culture. The blue or white flowers are half hidden in the abundant finely cut foliage, hence its common names. 1 to  $1\frac{1}{2}$  feet.

761 **Blue and White.** Mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.

### Ornamental Grasses



Nigella (Love-in-a-Mist)

- 764 **AGROSTIS NEBULOSA.** An airy and graceful annual grass, grows 18 inches high and looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 10 cts.
- 765 **COIX LACHRYMA.** (Job's Tears.) 9 feet. Large, broad leaves, large shiny seed. Hardy annual. Pkt. 10 cts.
- 767 **PENNISETUM LONGISTYLOM.** Graceful drooping heads. Excellent for bouquets. 2 feet. Hardy annual. Pkt. 10 cts.
- 768 **PENNISETUM RUPELLIANUM.** Foliage long and slender, the silvery plumes tinged with violet. 8 feet. Hardy annual. Pkt. 10 cts.

# ANNUAL FLOWER SEEDS

## Petunia

The Petunia is easily grown, and, blooming profusely all summer, is very popular for bedding. It thrives best in a warm sunny location. Sow seed thinly where plants are to remain, in beds for transplanting, or, for early blooming, in the house in boxes. Almost invariably the weaker plants produce the finer flowers, especially of the choice strains.

814 **FINEST MIXED.** A superior mixture. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.,  $\frac{1}{4}$  oz. 40 cts., oz. \$1.50.

815 **STRIPED AND BLOTTCHED MIXED.** A choice strain. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.

816 **HOWARD'S STAR.** Rich shade of maroon, with five-pointed star of white. Very pretty. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

817 **DWARF INIMITABLE MIXED COLORS.** Dwarf, bushy plants, flowers mostly beautiful striped and blotched. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.

818 **ROSY MORN.** A single flower, color soft carmine pink. A profuse bloomer. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

820 **ELK'S PRIDE.** Largest and darkest velvety purple. Pkt. 25 cts.

824 **GIANTS OF CALIFORNIA.** A superb strain. Flowers are of remarkable substance, enormous size and many are beautifully fringed. Pkt. 25 cts.

825 **DOUBLE, LARGE-FLOWERED, CHOICE MIXED.** An excellent mixture comprising a large variety of colors, with a good percentage of double flowers. Pkt. 50 cts.

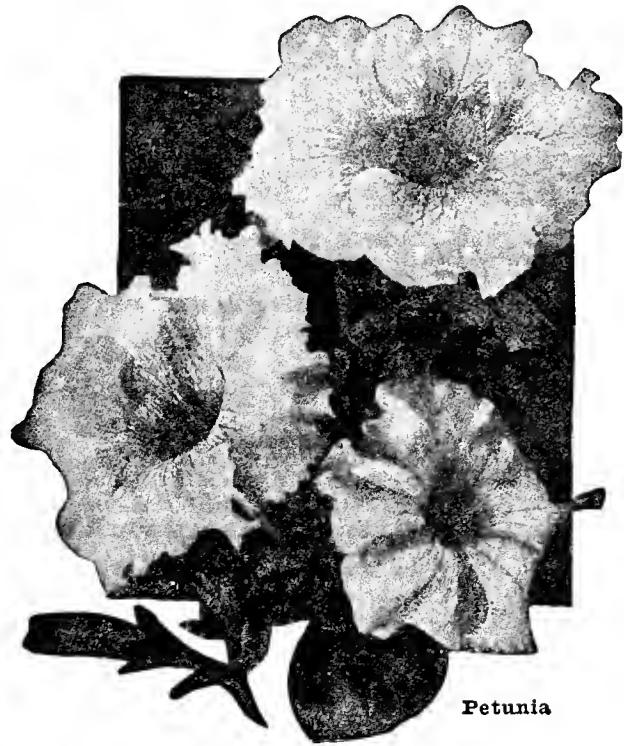
826 **BALCONY BLUE.** Dwarf type for porch or window boxes. Pkt. 20 cts., 1/16 oz. 40 cts.

827 **BALCONY ROSE.** Pkt. 20 cts., 1/16 oz. 40 cts.

### Phlox Drummondii

Seed may be sown in the open ground early in the spring either where the plants are desired to bloom, or in beds and the young plants set in the desired location when 2 or 3 inches high. The tall sorts should stand about 12 inches apart, the dwarf about 6 inches. The plants will be more bushy and cover the ground better if pinched off while small.

830 **Mixed Colors.** Pkt. 10 cts.,  $\frac{1}{4}$  oz. 15 cts., oz. 50 cts.



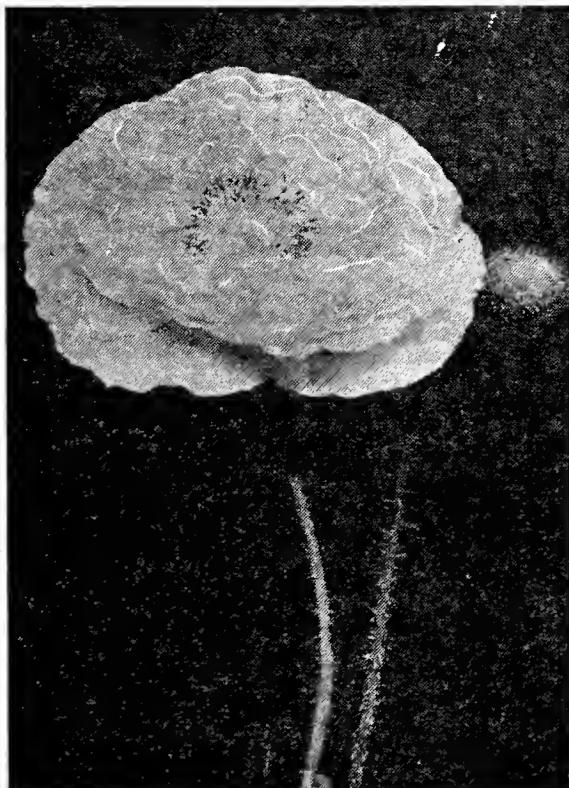
Petunia

831 **LARGE-FLOWERING.** Extra-Choice, Mixed Colors. Our own mixture of the choicest and best strains from different growers. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. \$1.00.

833 **ISABELLINA.** Pure yellow. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

841 **DWARF.** Mixed Colors. (P. Drummondii nana compacta.) 6 to 8 inches high. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

843 **STAR, or FRINGED.** Mixed Colors. (P. Drummondii Cuspidata.) Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.



Poppy, Double Shirley

### Poppy

Well-known hardy plants of quick growth, blooming profusely for a considerable time, thriving best on light, sandy loam. Seed of the annual varieties should be sown as early in the spring as possible and where desired to bloom as they do much better when they start to grow in cool weather and are very difficult to transplant. The seed is fine and should be only slightly covered.

#### SINGLE ANNUAL POPPIES

860 **ADMIRAL.** Large, single, peony-flowered variety, glistening white, with broad band of brilliant scarlet at the top. Pkt. 10 cts.

862 **DANEBOG, or DANISH CROSS.** Brilliant scarlet with white spots at base of each petal. Pkt. 10 cts.

870 **SHIRLEY.** A lovely strain, comprising many delicate and rich shades, ranging from pure white through pink, rose, scarlet and red to the deepest crimson. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.

871 **TRUE FLANDERS.** The scarlet Poppy of the fields of Flanders. They do not attain as large a size as a well grown Shirley Poppy. They flower the first season from spring-grown seed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.

#### DOUBLE ANNUAL POPPIES

878 **CARNATION-FLOWERED.** Mixed. Fine, large, fringed flowers of many colors, a popular class. Pkt. 10 cts., oz. 30 cts.

880 **CARDINAL.** Very large, pure cardinal-red; deeply cut, dark green foliage; very attractive. Pkt. 10 cts.

884 **PEONY-FLOWERED.** Mixed. Large, globular flowers, resembling a peony. Pkt. 10 cts., oz. 30 cts.

885 **SHIRLEY.** Double Mixed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts.

886 **SNOWDRIFT, or DOUBLE WHITE FRINGED.** Flowers from 3 to 4 inches across; very double and finely fringed. Pure white. Pkt. 10 cts.

888 **WORCESTER MIXED.** Our own mixture of single and double annual varieties. All types and colors. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.

**CALIFORNIA POPPY.** See Eschscholtzia.

# ANNUAL FLOWER SEEDS

## Portulaca

Well-known tender annuals, blooming profusely all summer. Thrive in most soils and locations, but succeed best in a light, sandy soil and sunny spot, enduring any amount of dry weather. Form a dazzling display when sown in masses.

894 **DOUBLE CHOICE MIXED.** Usually from fifty to sixty per cent of the flowers will come double. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 65 cts.,  $\frac{1}{2}$  oz. \$1.15, oz. \$1.90.**

895 **SINGLE SCARLET.** 896 **ROSE.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.,  $\frac{1}{2}$  oz. 35 cts.**

899 **SINGLE MIXED.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.,  $\frac{1}{2}$  oz. 40 cts.**



## Primula

(Primrose)

**PRIMULA SINENSIS** (Chinese Primrose). A beautiful winter-blossoming greenhouse perennial blooming from December to spring.

900 **CHOICEST MIXED.** Comprises the finest fringed varieties. **Pkt. 35 cts.**

**PRIMULA STELLATA** or **STAR PRIMROSE.** This valuable and very distinct variety should be extensively grown for greenhouse and table decoration. The innumerable star-shaped flowers make an effective contrast to the attractive dark foliage.

902 **MIXED COLORS.** **Pkt. 35 cts.**

## Rodanthe

One of the finest everlasting flowers and an excellent plant for garden decoration. If flowers are gathered before they are fully expanded and dried in the shade, they will retain their color for years. Tender annual. 1 foot.

920 **MIXED COLORS.** All shades of pink, rose, crimson and white. **Pkt. 10 cts.**

## Rudbeckia

(Cone Flower)

To this family belong the favorite plant, Golden Glow, and the well-known wild flowers, Blackeyed Susan, or Yellow Ox-eye Daisy. Both the annual and the perennials are of the easiest culture and grow in nearly all soils and situations, thriving alike in partial shade or fully exposed to the sun.

923 **BICOLOR SUPERBA.** Free-blooming annual of dense, bushy growth, bearing on long stems large, bright yellow flowers with velvety brown spots at base of petals, and disc or cone of brown. Excellent for cutting. 2 feet. **Pkt. 10 cts.**



Salpiglossis

## Salpiglossis

(Velvet Flower; Painted Tongue)

Graceful, half-hardy annual, bearing from August to October. Seed may be sown in the house the last of March or in the open ground in May. The plant succeeds best in deep, rich, rather light loam of medium mixture. 2 feet.

928 **GRANDIFLORA.** Choicest mixed. Extra large flowered strain. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

929 **EMPEROR.** Mixed colors. New type with one thick leading stem, flowers large and distinct in their beautiful veinings of gold. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Salvia—(Scarlet Sage)

A mass of bloom from late summer until killed by frost; tender perennial, treated as an annual. Seed should be sown early indoors, or in hotbed and the plants set out when the weather has become warm.

935 **SPLENDENS GRANDIFLORA.** The well-known Scarlet Sage. 3 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

936 **BONFIRE** (Clara Bedman). Compact, bushy growth, blooms earlier and more profusely. Intense scarlet. 2 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

937 **FARINACEA.** A perennial variety, but best grown as an annual. Seed sown in the open ground in May blooms from July to frost. The fine light blue flowers are borne on long spikes held above the foliage. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

938 **ZURICH.** One of the best of recent introductions; dwarf compact habit, producing long, thick spikes of brilliant scarlet flowers blooming in July. **Pkt. 10 cts.**

## Sanvitalia

940 Double; fine for bedding borders or rockeries. The flowers are bright yellow, bloom in six weeks' time. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

## Scabiosa—(Mourning Bride)

The flowers are large and double, with a great variety of colors. Of easy culture and blooms freely from July until hard frost. Hardy annual. 2  $\frac{1}{2}$  feet.

945 **LARGE-FLOWERED.** Mixed Colors. Fine, large, double flowers in a wide range of colors. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.**

947 **CAUCASICA.** Flowers large, pale lilac, about 3 inches in diameter, in bloom all summer. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

**SCARLET RUNNER.** See Beans—Ornamental varieties.

Salvia

# ANNUAL FLOWER SEEDS

## Schizanthus—(Butterfly, or Fringe Flower)

Beautiful, dainty, half-hardy annual. Seed may be sown in the open ground or in the house, and the plants set in the garden in May. Should be planted in a sheltered place or the plants tied to stakes, as the stems are very brittle and easily broken by strong winds. An excellent house-plant. 1 to 1½ feet.

948 **GRANDIFLORUS HYBRIDUS.** Very fine varieties. **Pkt. 10 cts.**

949 **WISETONENSIS.** Containng the most beautiful shades of white, pink, rose and crimson. Excellent for pot culture. **Pkt. 10 cts., ¼ oz. 60 cts.**

## Sensitive Plant—(Mimosa Pudica)

950 **PUDICA.** Globular heads of small pink flowers. Grown chiefly for the peculiar habit of the plant, the leaves closing and drooping at the slightest touch. Tender annual. 1½ feet. **Pkt. 10 cts.**

## Silene—(Catchfly)

Profuse flowering plants of easy culture. Seed of the annual sorts may be sown in the open ground early in spring or in the fall if early bloom is desired.

951 **ARMERIA. Mixed.** (Common Catchfly.) Annual; blooms from July to September. White, pink and red. 1½ feet. **Pkt. 10 cts.**

953 **PENDULA COMPACTA.** Mixed colors. White, rose and red. Annual. Largely used for edgings. May to August. 6 inches. **Pkt. 10 cts.**

## Smilax

955 **SMILAX.** A climbing plant, unsurpassed for its graceful foliage and orange-blossom fragrance of its flowers. Makes a fine pot or basket plant. Elegant for table decoration when cut. **Pkt. 10 cts.**

**SNAPDRAGON.** See *Antirrhinum*.

**SOLANUM CAPSICASTRUM.** See *Jerusalem Cherry*.

## Statice

Beautiful everlasting with spreading panicles of tube-like flowers that are decorative either in the garden or when cut. Their most effective use, however, is in bouquets for Winter, either alone or with other dried flowers. Sow outside in May after danger from frost. Hardy annual.

956 **SUWOROWII PINK.** **Pkt. 10 cts., ¼ oz. 35 cts.**

956A **SINUATA BLUE.** **Pkt. 10 cts., ¼ oz. 25 cts.**

956B **BONUELLI YELLOW.** **Pkt. 10 cts., ¼ oz. 25 cts.**

956C **SINUATA WHITE.** **Pkt. 10 cts., ¼ oz. 25 cts.**

## Stock—(Gilliflower)

One of the most popular annuals, remarkable for its profusion of bloom, brilliancy and diversity of colors and lasting quality of its flowers. Plants from seed sown inside in March or April commence to bloom in July and those from seed sown in the open ground in about ten weeks and continue until frost. Plants grown in rich soil and well cared for produce 80 to 90 per cent of double flowers.

957 **BEAUTY OF NICE.** Mammoth flowering. Delicate flesh pink, extra large spike. **Pkt. 10 cts., ½ oz. 50 cts.**

958 **MONTE BLANC.** Purest white. **Pkt. 10 cts.**

959 **MONTE CARLO.** Canary yellow. **Pkt. 10 cts.**

961 **SUMMER NIGHT.** Rich deep blue. **Pkt. 10 cts.**

**DRESDEN PERPETUAL, or BRANCHING.** (Cut-and-Come-Again.) A perpetual blooming class of branching habit; double, fragrant flowers. 2 feet.

967 **CHOICEST MIXED.** **Pkt. 10 cts., 1/16 oz. 25 cts., ½ oz. 40 cts.**

971 **LARGE-FLOWERED DOUBLE TEN WEEKS.** Seeds grown in the open ground instead of in pots, therefore cheaper. A good range of colors. 1½ feet. **Pkt. 10 cts., ½ oz. 25 cts., ¼ oz. 40 cts.**

## Sunflower Helianthus

The Sunflower grows well in all soils if fully exposed to the sun. The taller varieties make excellent background to other plants.

975 **CUCUMERIFOLIUS.** (Miniature Sunflower.) Small single flower, rich yellow. 4 feet. **Pkt. 10 cts., ½ oz. 25 cts.**



Stock

## Sunflower Helianthus—Continued

976 **GLOBOSUS FISTULOSUS.** (Globe or Dahlia Sunflower.) Flowers large, double of a rich saffron color. 6 feet. **Pkt. 10 cts., ½ oz. 25 cts.**

977 **RED SUNFLOWER.** The new Red Sunflower is easily grown from seed the same as all of the *Helianthus* family. **Pkt. 10 cts., ½ oz. 30 cts.**

980 **NEW MINIATURE VARIETIES.** Many new varieties of the miniature type, of various shades of yellow and creamy white. Some are large, some have twisted petals and some black centers. **Pkt. 10 cts., ¼ oz. 25 cts.**

981 **PERKEO.** A distinct dwarf variety of the Miniature and growing only a foot high and blooming from the last of June until hard frost; is especially valuable for bedding. **Pkt. 10 cts., ¼ oz. 20 cts.**

984 **DOUBLE CHRYSANTHEMUM-FLOWERED.** Flowers larger than the preceding; full and double. Orange-yellow. 5 feet. **Pkt. 10 cts., ½ oz. 35 cts.**

986 **RUSSIAN MAMMOTH.** Very large. 7 to 9 feet. **Oz. pkt. 10 cts.**

**SWEET SULTAN.** See *Centaurea*, page 39.

Do you receive our fall catalogue for Dutch bulbs? We list a full line of Tulips, Hyacinths and miscellaneous bulbs, also American grown Narcissus. If you do not receive this book, send us your name and address and we will gladly put you on our mailing list for our next fall catalogue.

## Giant Spencer Sweet Peas

Spencer Sweet Peas grown under the right condition should produce robust plants attaining a height of from 5 to 8 feet and for full development should not be less than six inches apart.

There are hundreds of the Orchid-flowered varieties of Sweet Peas; many of which are almost identical in color or some characteristic which all first class sorts should have. Our list contains only those varieties which we have found to be worthy of the growers' best attention and are selected because of some special merit.

All at uniform price except where noted. **Pkt. 10 cts., 1/2 oz. 20 cts., oz. 35 cts., 1/4 lb. \$1.00, postpaid.**

**APPLE BLOSSOM SPENCER.** Bright rose standard with wings of very light primrose flushed or tinted rose-carmine. Very large Spencer form.

**ASTA OHN.** Large flowers, waved and fluted in the standard with very large wavy wings, lavender, suffused or tinted with mauve; superior to any other lavender.

**AUSTIN FREDERICK IMPROVED.** A very large and long-stemmed rosy lavender. A vigorous grower and producer. A wealth of fine blossoms.

**AVALANCHE.** A white seeded white. This grand white is outstanding because of the thick texture of the petals and the purity of the color.

**BARBARA.** An excellent sort for exhibition or table decoration; a large salmon-orange and much superior to Earl Spencer, as it retains its original color.

**BLANCHE FERRY SPENCER.** Closely resembles the variety of the older type. Large, well waved and crinkled.

**BLUE FLAME.** The largest dark blue Sweet Pea in existence. It is truly a true deep blue with the standard bearing a little deeper color than the wings. Blue Flame is most unusual for its great length of stem and remarkable vigor. A grand exhibitor's pea. **Pkt. 15 cts., 1/2 oz. 40 cts., oz. 75 cts.**

**CONSTANCE HINTON.** A beautiful white Spencer of enormous size. Young flowers usually tinted a trifle pink, but they soon turn pure white.

**CRIMSON KING.** The color is a solid, rich, deep, clear crimson throughout, becoming richer in the throat. Absolutely no distinguishing difference between the color of standard and wings. The flowers are of precisely the same distinct color from bud to "passing off" stage. Entirely free from sunburn and wind scald at all times.

**COUNTESS SPENCER.** The original of this type. Soft rose-pink, deepening somewhat at the edges.

**DOBBIE'S CREAM.** Rich primrose, perfect form, waved edge, usually four flowers on a stem.

**ELFRIDA PEARSON.** The flowers are of extra large size, great substance and lasting quality when cut. They are nicely disposed on extremely long, stiff stems, invariably borne in fours. The vines bloom in wonderful profusion and are of such vigorous growth that the flowers frequently come with double standards. The color is lovely pink throughout, the buds and flowers being tinted with salmon pink.

**FIERY CROSS.** The flowers are of good size and beautifully waved, but its greatest merit is its color, a brilliant fiery-scarlet, and its well-deserved name is truly descriptive.

**FLORENCE NIGHTINGALE.** Best soft lavender.

**HAWIMARK PINK.** Quite distinct from any other pink variety, the general effect being rose-pink suffused with salmon, undoubtedly the most beautiful pink Sweet Pea.

**HEAVENLY BLUE.** A fine clear blue Spencer. This variety lacks the mauve shade which spoils so many blue Sweet Peas. It is of vigorous growth and carries well placed flowers on good long stems.

**HONOUR.** A very large bright crimson Spencer Sweet Pea of magnificent form. The standard and wings are alike in color and the flowers nicely placed on good stout stems. Honour is a fine free flowering variety and of robust growth.

**KING EDWARD SPENCER.** Rich crimson-scarlet, large and of fine form; the best of this color.



**Austin Frederick Improved**

**KING WHITE.** The grandest of all white Sweet Peas, and of the most up-to-date Spencer form. It is much the largest white Spencer—the buds are of exceptional size before opening, even the seed pods are unusually large. The stems are long and stout, and bear practically always four blossoms. King White created a sensation wherever shown.

**MARGARET ATLEE.** The largest and finest Sweet Peas yet introduced. It is a rosy salmon-pink on a creamy buff ground; a rich soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large, wavy and frequently double. The wings are also large, wavy, well set. There are usually four blossoms to a stem; well poised and graceful.

**MARY PICKFORD.** A beautiful dainty cream pink with just the faintest suffusion of salmon, making the color combination hard to surpass. The flowers are perfectly formed with both standards and wings decidedly waved. "Mary Pickford" is a sturdy grower, producing an abundance of large four-flowered sprays on long, stout stems.

**MISS DELIGHT.** Magnificent double Sweet Pea having beautifully waved petals. There is a duplexing of both standards and wings, giving the appearance of a true double form. The color is best described as a warm light salmon pink on cream ground with a decided amber suffusion, which gives life to the blossom. The flower is itself huge and with the four beautifully doubled blossoms on a strong stem it is a grand and unique novelty. **Pkt. 20 cts., 1/2 oz. 60 cts., oz. \$1.00.**

## Spencer Sweet Peas

### CONTINUED

**PINKIE** is by comparison the largest of all we have ever seen in the Deep Pink section of accepted, preferred varieties. A most vigorous grower, producing on long stout stems well waved, nicely placed flowers of a beautiful rose pink shade.

**SUNKIST** is a large rose picotee, edged on cream ground, giving a very beautiful effect, especially when used for table decorations. The large, bold flowers are well waved and borne on good, stout stems.

**ROYAL PURPLE**. A new shade in Sweet Peas, a rich purple and almost a true royal purple. The same shade effect does not exist in the grandiflora type.

**WARRIOR**. Deep chocolate, almost black, unequalled for mixing with other shades for bouquets and table decorations. The darkest Sweet Pea introduced.

**MISS CALIFORNIA**. Salmon pink.

**MRS. TOM JONES**. Deep amethyst blue, very fine form, the best of the deep blues.

**PRINCE OF ORANGE**. Like all orange colored varieties, requires shading, but this extra labor is amply repaid by the brilliant, rich color. Prince of Orange is the deepest and richest orange colored Sweet Pea we have ever seen.

**WHITE SPENCER**. Pure white. Of the largest size, has beautifully poised wings and the standard is erect and wavy. Stems often 12 inches long.

**YOUTH**. The color is an exquisite pink picotee edge on a pure white ground and a combination that cannot fail to excite enthusiasm on the part of all growers.

Price of the above except where noted: Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. \$1.00.

### Early Flowering Spencers

**EARLY GIANT ROSE**. Largest of all rose-pink. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

**EARLY HARMONY**. This is the outstanding lavender in early flowering sweet peas because of the vigor of growth and the wealth of blossoms produced. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

**EARLY SUPERIOR PINK**. It is a beautiful shade of rose-pink slightly shaded with salmon of perfect form and beautifully waved. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

**EARLY SILVER BLUE**. This is a light blue lavender and is very popular because the light blue lavender shade harmonizes with all pink shades. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

**EARLY SNOW WHITE**. It is popular on account of the purity of the whiteness of the petals and the length of the stems. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

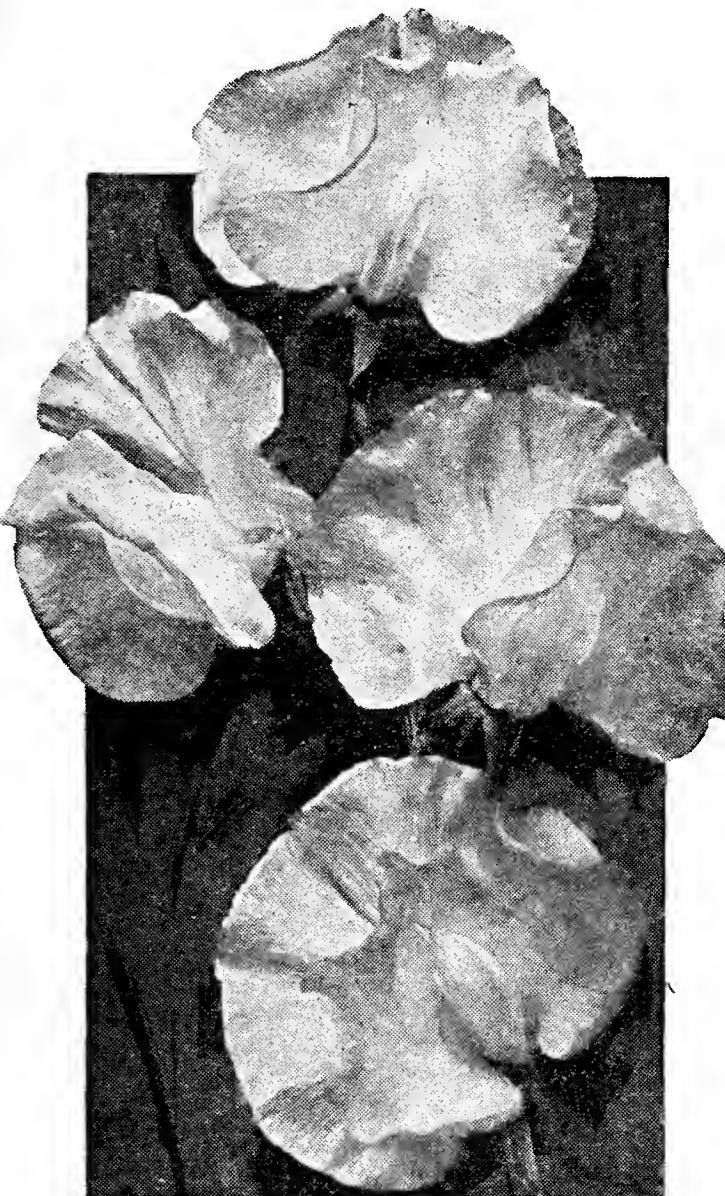
**EARLY VULCAN**. It is a very vivid scarlet. The flower is not affected by the bright sunshine, in fact the brighter the sun, the more intense the color. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

**YARRAWA**. A Sweet Pea novelty of sterling merit, coming from Australia. The flowers are waved, of large size, many of them being double. Color, a soft, bright rose pink with a creamy base. One of the best for forcing under glass, and when grown out of doors blooms two weeks earlier than the Summer Spencers. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 35 cts., oz. 60 cts.

### Choice Mixed

**1295** This mixture we make up ourselves of the choicest large flowered varieties, including the best of the standard varieties, all of the varieties of the New Giant and Orchid-Flowered, both of the Spencer and Unwin types and many of the unnamed Spencers. This mixture comprises all shades, but is blended in carefully studied proportions and is the most desirable and popular mixture which can be produced. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

Inoculate This Seed with Stimugerm—See Page 4



Pinkie

## Sweet Pea Mixtures

### Spencer Varieties and Seedlings Mixture

This is a superb mixture of Spencer or Giant Waved Flowered varieties. It contains not only the named kinds, but many of the unnamed seedlings. It must be remembered that the Spencer sorts do not come as true as the old standard kinds, but a very large percentage will be of the Spencer type with a waved flower. This is the very best mixture that you can buy and it is well worth the difference in price. Pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 60 cts., 1 lb. \$2.00.

### Our Best Mixed

**1295** This mixture we make up ourselves of the choicest large flowered varieties, including the best of the standard varieties, all of the varieties of the New Giant and Orchid-Flowered, both of the Spencer and Unwin types and many of the unnamed Spencers. This mixture comprises all shades, but is blended in carefully studied proportions and is the most desirable and popular mixture which can be produced. Pkt. 10 cts., oz. 15 cts.,  $\frac{1}{4}$  lb. 50 cts., lb. \$1.75.

**1296** Also prepared by us; a well-blended mixture comprising many of the large-flowering varieties of the older type, and Eckford's Large-Flowering Hybrids in great variety. The mixture will compare favorably with those generally offered at a higher price, and is surpassed only by mixtures which, like our Best Mixed, contain the new orchid-flowering varieties. Oz. 10 cts.,  $\frac{1}{4}$  lb. 25 cts., lb. \$1.15.

# ANNUAL FLOWER SEEDS

## Thunbergia

1315 **MIXED.** An annual vine, growing about 4 feet high, bearing medium-sized flowers, white, buff or orange, with dark eye. Largely used in hanging baskets or window boxes. **Pkt. 10 cts.**

## Verbena

Favorite annuals, thriving in nearly all soils. Useful for beds, borders, carpeting ground and vases. Plants from seed sown in open ground in May will begin to bloom in August, and those sown inside in March will bloom from June until frost.

1319 **MAMMOTH GOLDEN QUEEN.** As in Aster it has been difficult to get a clear golden yellow. Golden Queen has medium size flower borne on a vigorous vine that is of an everbearing nature. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

1320 **MIXED COLORS.** A good strain, all colors of old type. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.**

1321 **MAMMOTH MIXED COLORS.** Comprises the best large flowering sorts of many colors. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 50 cts.**

1322 **SCARLET DEFIANCE.** Large trusses of deep, rich scarlet. **Pkt. 10 cts.**

1323 **MAMMOTH WHITE.** Truss and flowers large, fragrant. **Pkt. 10 cts.**

1324 **ITALIAN STRIPED.** Large trusses of medium-sized flowers, each distinctly striped. **Pkt. 10 cts.**

1325 **"BURBANK'S GIANT MAYFLOWER."** A selected strain from Luther Burbank, having a powerful fragrance like that of the Trailing Arbutus. The flowers are of the largest size and most beautiful colors. **Pkt. 15 cts., 2 pkts. 25 cts.**

1326 **LEMON.** An old favorite with delightfully scented foliage. It is a low-growing tender plant and may be grown in the garden in summer and in pots in winter. **Pkt. 10 cts.**

1327 **FIREBALL** (*Nana Compacta*). A dwarf compact Verbena growing about 6 in. high and covered with bright scarlet blooms. Excellent for borders, beds or pot plants. **Pkt. 15 cts.**

## Wild Cucumber Vine

1346 **WILD** (*Echinocystis Lobata*). One of the most rapid-growing climbers with white fragrant flowers. Seed may be sown either in the Fall or Spring. **Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.**

## Zinnia

### (Youth and Old Age)

The most gorgeous annuals with a wonderful range of color, flowers of velvety texture, extremely double with long stems and good keeping qualities.

1350 **MIXED COLORS.** An improved strain, comprising all colors and many large flowers. 2 feet. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts., oz. 60 cts.**

## Mammoth Flowered Zinnia

These grand annuals are of the Giant or Mammoth flowering type and are in every way superior to the old-fashioned "Youth and Old Age."

The plants grow from 2½ to 3 feet high and are covered with myriads of densely double flowers, measuring from 4 to 6 inches in diameter. Giant Zinnias are one of the best plants for beds, borders and cutting.

1351 **MAMMOTH CRIMSON.** 1352 **Mammoth White.** 1353 **Mammoth Scarlet.** 1354 **Mammoth Yellow.** 1355 **Burnt Orange.** 1356 **Deep Salmon Rose.** Each, **pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts.**

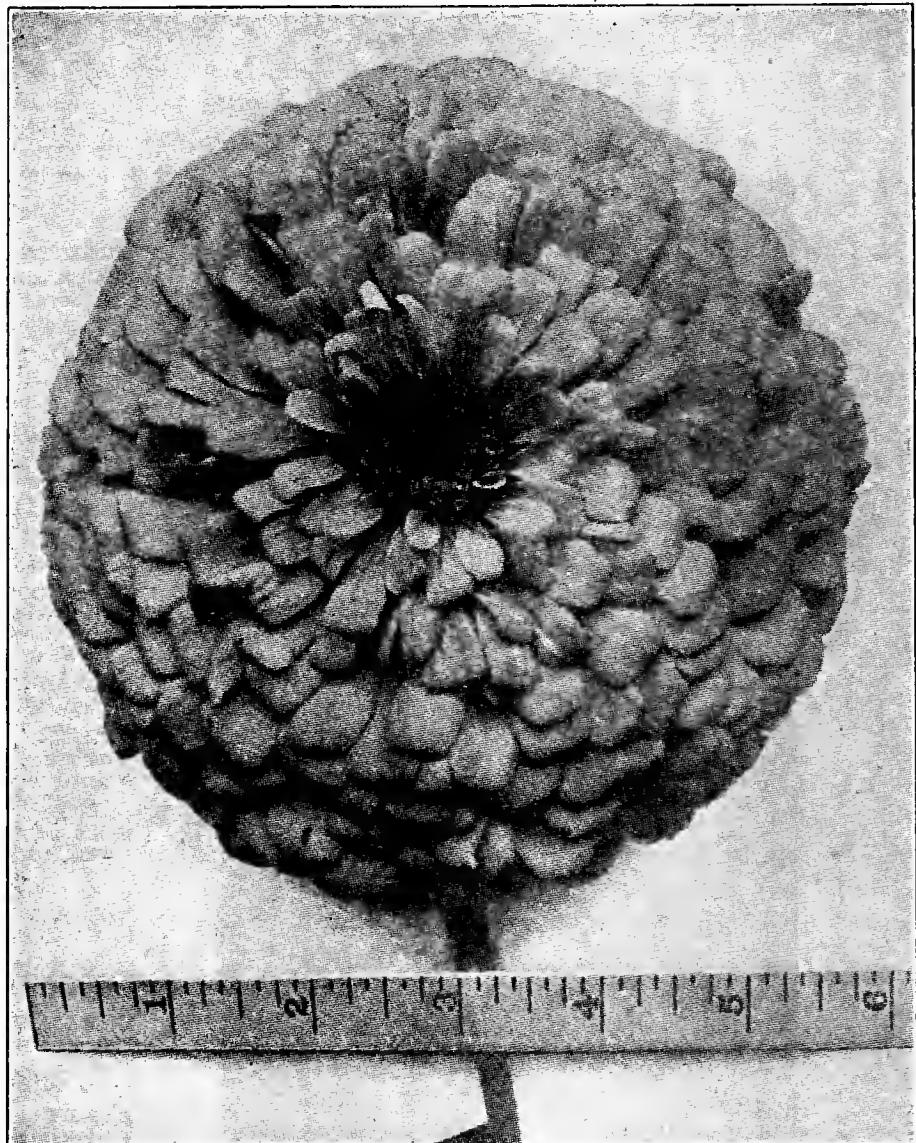
1358 **MAMMOTH.** Mixed colors. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.**

1360 **CURLED AND CRESTED.** A pleasing variation from the regular type, the petals being twisted, curled and crested. All colors. 2½ feet. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts.**

1362 **ZEBRA.** Striped flowers, the colors varying on each plant. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.**

1363 **LILLIPUT** (*Pompon*). Small, double flowers of many colors. Very profuse. 1½ feet. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.**

1364 **HAAGEANNA fl. pl.** (*Mexican Zinnia*). A distinct type with small, pretty, double and semi-double flowers. Of dwarf and slender growth, the plant is excellent for bedding, while the deep orange flowers are good for cutting. **Pkt. 10 cts.**



## Zinnia New Giant Dahlia Flowered

This splendid new and distinct race is without a doubt the greatest improvement in Zinnias yet developed and will greatly increase the popularity of this flower. The plants are of strong, vigorous habit, from 2½ to 3 feet high, and produce mammoth flowers 4 to 6 inches across and 2½ to 3 inches deep.

1366 **BUTTERCUP.** An immense deep, creamy yellow. A very desirable flower, which should be included in every collection.

1368 **CRIMSON MONARCH.** By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit.

1370 **DREAM.** A fine, deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias.

1372 **EXQUISITE.** By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color, light rose with center a deep rose. (Tyrian Rose.) Each of the above, **pkt. 25 cts., 6 pkts. \$1.00,  $\frac{1}{2}$  oz. 50 cents.**

(CONTINUED ON NEXT PAGE)

# ANNUAL FLOWER SEEDS

## Zinnia New Giant Dahlia Flowered (Continued)

1374 **ORIOLE.** We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named.

1376 **OLD ROSE.** This is adequately described by its name, as it is of the real Old Rose shade; it is large, and for charm and beauty we consider it ranks next to Exquisite.

1378 **POLAR BEAR.** A very large, pure white—the best white yet seen in Zinnias. True Dahlia form. Each of the above, pkt. 25 cts., 6 pkts. \$1.00,  $\frac{1}{8}$  oz. 50 cts.

1380 **SPECIAL MIXTURE.** A well blended mixture containing all the above novelties. Pkt. 25 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 70 cts.

1386 **WILD FLOWER GARDEN MIXTURE.** A mixture of many free-blooming annuals which, once sown, require little care, and sown in this way, almost none. In fact, with the exceptions of thinning out some plants where they grow too thickly and removing an occasional weed, the bed often looks better let alone, is more in keeping with its name, and more like some lovely spots where wild plants grow. Pkt. 10 cts.,  $\frac{1}{2}$  oz. 20 cts., oz. 35 cts.,  $\frac{1}{4}$  lb. 80 cts.

## THE WORCESTER "DOLLAR" COLLECTION OF ANNUAL FLOWERS

Owing to its popularity during the last 4 years we are again offering this collection of 15 pkts. postpaid for \$1.00. Each the best in its class. With one of these collections you can have flowers all Summer.

Alyssum—Little Dorrit  
Aster—Worcester Mixed  
Balsam—Choice Mixed  
Calendula—Choice Mixed  
Candytuft—Mixed Colors

Four o'Clock—Mixed Colors  
Marigold—Double Mixed  
Mignonette—Grandiflora Mixed  
Nasturtium—Dwarf Mixed  
Petunia—Finest Mixed

Phlox—Finest Mixed  
Pansy—Worcester Mixed  
Sweet Peas—Spencer Mixed  
Scabiosa—Mixed  
Zinnia—Mammoth Mixed Colors

The above collection will be sent postpaid to any address for \$1.00.

# PERENNIAL FLOWER SEEDS

## Achillea

135 **PTARMICA.** (The Pearl.) One of the best white hardy perennials, bearing profusely and continuously from June until frost; beautiful small, white double flowers; useful for cutting. Easily grown from seed; desirable and often used in cemeteries. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

## Aconitum

136 **NAPELLUS.** (Monkshood.) Large, porcelain-blue hood-shaped flowers; very effective in borders; valuable for cutting. 1 $\frac{1}{2}$  feet high. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

## Adlumia

140 **CIRRHOSEA.** (Mountain Fringe; Allegheny Vine.) A beautiful hardy, climbing biennial, which usually self-sows. The feathery foliage resembles that of the maiden-hair fern. Of rapid growth and produces, in great profusion, small, tube-shaped pink blossoms. Of the easiest culture. Desirable for covering trellises, stumps, etc. 10 to 15 feet. Pkt. 10 cts.

## Cinnamon Vine

A beautiful hardy climber of extremely rapid growth, growing the first season from 15 to 30 feet, and when the root becomes fully established, to a much greater length. The leaves are green, with tinge of bronze, and are very attractive. The flowers are white, borne in clusters, and of no great beauty, but of a delightful cinnamon-like fragrance. The vine dies at the end of the season, but the root is hardy, living for years and increasing in size and vigor each season. Postpaid, extra-large roots, each 10 cts., 3 for 25 cts., doz. 90 cts.

## Madeira Vine

A rapid-growing climber with beautiful, thick, glossy wax-like leaves and bearing profusely in graceful feathery racemes white flowers which have a fragrance resembling mignonette. Plant when ground becomes warm. Store tubers in a cold, dry place during winter. Postpaid, each 10 cts., doz. 90 cts.

## Tuberose

Bulbs may be started in the house for early flowers, or they may be planted in the open border, but not earlier than June in this latitude.

**EXCELSIOR DWARF PEARL.** Improved strain; plant of dwarf habit; blooms earlier and flowers are more double than old strain. Extra large bulbs, postpaid, 10 cts. each, 3 for 25 cts., doz. 90 cts.

## Begonias, Tuberous-Rooted

Desirable for shady places. Start in the house early and set plants in the open ground about the last of May. They will bloom soon and profusely and continuously until frost. Keep constantly moist.

**SINGLE VARIETIES.** Mixed Colors. 20 cts each, doz. \$2.00.

**DOUBLE VARIETIES.** Mixed Colors. 20 cts each, doz. \$2.00.

## Adonis

Hardy, free-flowering plants, bearing showy, attractive flowers and requiring little care. Seed should be sown in the open ground in the Autumn, or started early in March.

145 **VERNALIS.** (Ox-Eye.) Hardy perennial, blooming early in spring; when once established, may be easily increased by division. Flowers large, yellow. 18 inches. May and June. Pkt. 10 cts.

## Agrostemma

Pretty, free-blooming plants of easy culture, especially desirable for dry situations. Excellent for cutting.

161 **CORONARIA.** (Rose Champion.) One of the earliest hardy perennials. 1 $\frac{1}{2}$  feet. Mixed colors. Pkt. 10 cts.

## Alyssum

170 **SAXATILE COMPACTUM.** Hardy perennial, bearing in great profusion in early spring golden yellow flowers. Desirable for rock work or for massing. 1 foot. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

# PERENNIAL FLOWER SEEDS

## Anchusa

H. P. Flowers borne on spikes of a variety of blue shades. Useful in shrubbery and perennial gardens.

186 **DROPMORE VARIETY.** The bright blue Forget-Me-Not-like flowers are borne on graceful stems during the entire season and 'way late into the fall. It is a great improvement over the existing varieties. Hardy perennial. 4 to 5 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Anemone

A very popular, hardy garden perennial.

188 **CORONARIA.** Single, mixed colors. The well-known Poppy flowered Anemone. 1 foot. **Pkt. 10 cts.**

189 **CORONARIA, ST. BRIGID.** An improved strain, bearing large and more brilliant flowers and remaining in bloom longer. 1 foot. **Pkt. 10 cts.**

## Anthemis

(Hardy Golden Marguerite)

A beautiful, hardy perennial of easy culture, bearing all summer golden yellow daisy-like flowers, excellent for cutting. Plants bushy and should stand at least 2 feet apart. Height 2 feet.

190 **KELWAYI.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.**

## Aquilegia

(Columbine)

Beautiful free flowering hardy perennials, blooming throughout the spring and early summer. Of easy cultivation and will thrive in partial shade. 1 to 3 feet.

200 **Single Mixed.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.**

202 **Double Mixed.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.,  $\frac{1}{4}$  oz. 50 cts.**

204 **COERULEA HYBRIDA** pl. fl. Long spurred, flowering hybrids in fine colors. **Pkt. 15 cts.**

## Arabis

209 **ALPINA.** (Rock Cress.) A pretty little hardy perennial, thriving in dry soil, and one of the earliest to bloom. Flowers white and deliciously fragrant; resembles Sweet Alyssum. The plant is covered with bloom and is excellent for rockwork and edgings. 6 inches. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Aristolochia

215 **SIPHO.** (Dutchman's Pipe.) A hardy perennial vine of rapid growth with large, glossy heart-shaped leaves, bearing curious yellowish-brown blossoms, somewhat resembling a pipe. 15 to 20 feet. **Pkt. 15 cts.**

## Asperula

220 **ODORATA.** (Sweet Woodruff.) A hardy perennial, blooming freely and continuously in rather moist soil and a partially shaded location. The flowers are white, but the plant is largely grown for its fragrant leaves and stems, which are used when dried for the same purpose as those of lavender. 1 foot. **Pkt. 10 cts.**

## Bellis Perennis—(Double Daisy)

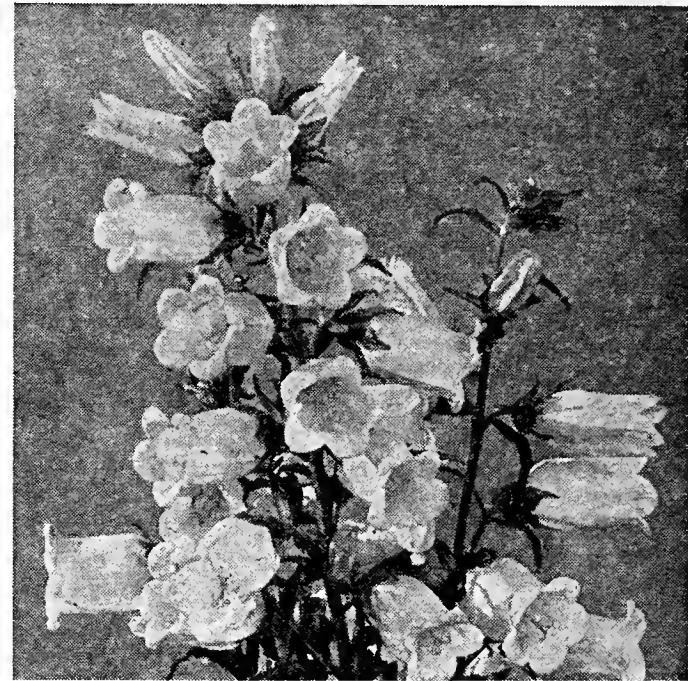
A perennial plant, bearing in early spring small double white or rose-colored flowers. It succeeds best here in a rich, loamy soil, partially shaded. It is generally classed as hardy, but really needs a slight protection through the winter. 4 inches.

246 **LONGFELLOW.** Dark Rose. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.**

247 **SNOWBALL.** Pure White. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.**

247A **RED QUILLED.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.**

248 **MONSTROSA DOUBLE MIXED.** These new "Double" Daisies surpass all strains of this popular plant in strong, robust growth and abundance of large bloom. Each plant produces 12 to 15 flowers that measure 2 to 3 inches across, carried on long, strong stems. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.**



Canterbury Bells

## Canterbury Bells (Campanula Medium)

Well-known, beautiful, hardy biennials. Like all of this class, may be sown where they are to remain any time after midsummer, or in beds in the spring for transplanting. The Calycanthema (Cup-and-Saucer) class is so named because of the broadening of the calyx into a saucer-shaped secondary flower. In permanent situations, plants should stand 18 to 20 inches apart. All varieties succeed best in a rich, rather sandy, well-drained soil.

267 **PRIZE MIXTURE.** A superb mixture of all classes, single, double, and cup and saucer. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

268 **SINGLE MIXED COLORS.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.**

269 **DOUBLE MIXED COLORS.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

270 **CALYCANTHEMA.** Rose Pink. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

272 **CALYCANTHEMA.** (Cup-and-Saucer.) **Mixed Colors.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

273 **CALYCANTHEMA.** Blue. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

274 **CALYCANTHEMA.** White. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Centaurea

328 **MONTANA BLUE.** (Perennial Corn Flower.) Large violet-blue flowers. 2 feet. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Chrysanthemum

334 Early flowering double and semi-double mixed. **Pkt. 10 cts.**

335 **JAPANESE HYBRIDS.** Large flowers in a fine range of colors. **Pkt. 10 cts.**

336 **KING EDWARD VII.** Pure white. **Pkt. 10 cts.**

## Clematis

340 **PANICULATA.** One of the finest hardy perennial climbers. Of robust habit, and covered from the ground to the summit with pure white fragrant flowers. The flowers are followed by pretty seed pods of bronzy-red. 12 feet. **Pkt. 10 cts.**

**COLUMBINE.** See *Aquilegia*.

## Coreopsis

For Annual Varieties, see *Calliopsis*.

358 **LANCEOLATA GRANDIFLORA.** A beautiful, hardy perennial, blooming profusely the first season until frost from seed sown early. The flowers are a rich golden yellow, often 3 inches in diameter, borne on fine long stems and are very desirable for cutting. Of easiest culture, growing anywhere. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 40 cts., oz. \$1.40.**

358A **DOUBLE YELLOW.** The flowers are immense and, while it is not a full double, it is a great improvement over the semi-double. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.**

# PERENNIAL FLOWER SEEDS

## Dahlia

If seed of the double sorts is sown in March and the young plants set in the open ground as soon as danger of frost is past, some of the plants, perhaps half, will bloom the first season. The single varieties, however, will all bloom the first season from the seed sown in the open ground, as late as the first week in June.

371 **SINGLE MIXED COLORS.** Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts., oz. 75 cts.  
 372 **SPECIAL MIXTURE of Giant Flowered Single Varieties.** Comprises seed from noted English and Holland growers, and includes the Giant Perfection, and Colossal strains, and Hornsveld's Giant Hybrids. An unsurpassed mixture of the greatest possible diversity of color. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.  
 373 **DOUBLE LARGE-FLOWERED.** Mixed colors. Saved from the finest show varieties. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.,  $\frac{1}{4}$  oz. 40 cts.  
**DAHLIA BULBS.** See pages 60 and 61.

## Daisy

**SHASTA DAISY.** An extremely hardy perennial, thriving in all soils, blooming more freely each season, and when once established, for several months. Easily grown from seed and can be also increased by division of the root. The flowers are from 3 to 4 inches across, borne on very long, stiff, wiry stems, and remain in good condition for many days after being cut.

378 **SHASTA ALASKA.** Pure glistening white. Pkt. 15 cts., 1/16 oz. 40 cts.,  $\frac{1}{8}$  oz. 75 cts.  
 379 **SELECTED HYBRIDS.** A mixture of seeds saved from the best seedlings, including some with double rows of petals. Pkt. 15 cts.  
**MICHAELMAS DAISIES.** (Perennial Single Asters.) Beautiful and showy, hardy perennials easily grown from seed, blooming profusely in the autumn months, and the first season if seed is sown early.

381 **MIXED COLORS.** Pkt. 10 cts.  
 For other flowers known as Daisies, see Anthemis, Brachycome and Chrysanthemums.

## Delphiniums

393 **ELATUM.** (Bee Larkspur.) Flowers have curiously folded, hairy petals in the center, which give them a fancied resemblance to a bee. Rich shades of blue, with black center. 2½ feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 394 **FORMOSUM.** The large flowers are deep, rich blue, with white centers. 2½ feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 395 **HYBRIDUM.** Shades of blue. If sown early, will bloom in August. 2 feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 396 **DOUBLE HOLLYHOCK STRAIN.** This strain is a fine mixture of all light shades, pale, clear blue predominating. The flowers are large, truly double, well placed on long spikes, their sturdy growth and general appearance reminding one of a Hollyhock. Pkt. 15 cts.

## Dianthus, Pinks

Hardy biennials, blooming the first year from seed. So easily grown from seed as to be rarely treated as biennials. Seed may be sown in the open ground any time in May. Plants 6 inches apart. Height 1 foot.

398 **DOUBLE CHINA.** (D. Chinesia fl. pl.) Small, double flowers, borne in large clusters of many colors, mostly with white edge. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.  
 399 **HEDDEWIG'S DOUBLE.** (D. Heddewigi fl. pl.) Japan Pinks. Very large, double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon, almost black. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.  
 400 **SINGLE MIXED.** Large single flowers, of rich and varied colorings. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.  
 406 **DOUBLE FRINGED JAPAN.** (D. Laciiniatus fl. pl.) Large, double fringed flowers of rich and varied colorings. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.  
 407 **FIREBALL.** Of dwarf habit. Flowers globular, double, dark, blood red. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 408 **SNOWBALL.** Very double, pure white. Excellent. Pkt. 10 cts.  
 415 **WORCESTER MIXED.** All the above and other choice strains. Unsurpassed. Pkt. 10 cts.,  $\frac{1}{4}$  oz. 30 cts., oz. \$1.00.



Dianthus

## Hardy Perennial Varieties Clove or Grass Pinks; Dianthus plumarius

Improved forms of the old well-known Clove Pink. They grow anywhere and bloom very profusely. Flowers of many pleasing colors and deliciously fragrant. Very useful for the hardy border.

416 **SINGLE.** (Pheasant's Eye, Pink.) Mixed colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.  
 417 **DOUBLE AND SEMI-DOUBLE.** Mixed colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.  
 418 **FLORIST'S PERPETUAL PINK.** (D. Semper-Florens.) Double and semi-double; large flowers; very fragrant and of a great diversity of colors. Blooms nearly all summer and if sown in March will generally bloom the first season. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

## Dielytra

421 **SPECTABILIS.** (Bleeding Heart.) The flowers are heart shape, varying from light pink to rosy crimson. Leaves are light transparent green. Blossoms in April and May. Pkt. 25 cts.

## Digitalis—(Foxglove)

Favorite hardy plant bearing in June and July tall flower spikes. Of easy culture. Well suited for background to other plants and for naturalizing in the edges of woods. Hardy biennial or perennial. 2½ to 3 feet.

423 **MACULATA SUPERBA.** (Ivery's Spotted.) Choice strain of spotted varieties. Pkt. 10 cts.  
 424 **MONSTROSA.** Mixed colors. Monstrous flowers. Attractive. Pkt. 10 cts.  
 427 **PURPUREA.** (Common Foxglove.) Mixed colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.  
 428 **PURPUREA.** Rose. Pkt. 10 cts.  
 429 **PURPUREA.** White. Pkt. 10 cts.

# PERENNIAL FLOWER SEEDS

## Forget-Me-Not—(*Myosotis*)

Favorite half-hardy perennials, mostly treated as annuals, nearly all blooming the first season from seed sown early in the open ground. They succeed to a degree that warrants their cultivation in average soil and open situation, but thrive better in cool, moist soil, considerably shaded 6 inches.

454 **ALPESTRIS.** (Blue Alpine Forget-Me-Not.) **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

457 **PALUSTRIS.** (True Forget-Me-Not.) Dark blue; blooms the first season. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

459 **DISTINCTION.** (Ever-flowering.) New; blooms in eight to ten weeks from sowing. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 30 cts.**

460 **PERFECTION.** Dwarf Indigo Blue. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

461 **VICTORIA.** The flowers are large, bright azure blue, with yellow centers. Best for edging. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.**

## Gaillardia

Hardy perennial Gaillardias thrive in nearly all soils and situations, requiring no protection and almost no care. Flowers large, with rich shades of scarlet, orange and crimson, the three often combined in one flower. Desirable for the perennial border. If sown early, will bloom in the first season. 1½ to 2 feet.

478 **Newest Varieties. Mixed.** A splendid mixture; comprises all the colorings known. **Pkt. 15 cts.,  $\frac{1}{8}$  oz. 30 cts.**

## Geum

Free flowering producing a wealth of attractive flowers much prized for cutting. They are of tufted habit of growth. Excellent for borders.

486 **LADY STRATHEDEN.** Flowers loosely double; a delightful shade of golden yellow. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

487 **MRS. BRADSHAW.** The double orange scarlet flowers are very large and full. 2 ft. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 40 cts.**

## Gypsophila

### (Baby's Breath)

Very useful, free-blooming plants of easiest culture. Flowers very small, borne in loose, graceful panicles. Very largely used in bouquets with other cut-flowers, such as Sweet Peas, Roses, Carnations, etc. 2 feet.

502 **MANGINII LIGHT PINK, H. P.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 35 cts.**

504 **PANICULATA FLORE PLENO.** A fine new double of the purest white, the flowers forming miniature balls of white petals. **Pkt. 25 cts.**

506 **PANICULATA.** White. The variety more generally known as Baby's Breath. Hardy perennial. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.**

## Helenium

A very valuable hardy perennial, bearing in profusion August and September, long stemmed single flowers; fine for cutting. Effective as a background.

510 **AUTUMNALE SUPERBUM.** Deep golden yellow. 5 to 6 feet. **Pkt. 10 cts.**

## Heliopsis

516 **PITCHERINA.** One of the best hardy perennials for dry soils and its graceful flowers among the best for cutting. The plant commences to bloom early in season. The flowers are of beautiful deep yellow, of great substance, and about 2 inches diameter. 3 feet. **Pkt. 10 cts.**

## Heuchera

525—**SANGUINEA.** A fine, hardy perennial, bearing in graceful spikes rich crimson flowers. Useful for cutting, and the plant is useful in the mixed border. 1 foot. **Pkt. 10 cts.**



Gaillardia

## Hollyhock

Very ornamental perennials, attractive in mixed borders, making an attractive background. Flowers about 3 inches across set as rosettes around strong-growing stalks. Seed sown in May or June make fine blooming plants the following season.

530 **CHATER'S FINEST MIXED.** Choicest double varieties, a large percentage of the flowers coming double. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.**

531 **Double. Mixed Colors.** **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

532 **ALLEGHENY.** Large, semi-double flowers, beautifully fringed, of silky texture and richly colored. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.**

534A **EXQUISITE.** Very large flower with beautifully curled and fringed white-margined petals, each adorned with a long blotch in various shades of red. **Pkt. 10 cts.**  
**CHATER'S DOUBLE.** 535 Maroon. 535A Pink. 536 Snow White. 536A Yellow. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.**

## Humulus—(Hop)

The Lupulus, or Common Hop, is a hardy perennial, easily grown from seed and, when established, of very rapid growth. 10 to 20 feet.

538 **LUPULUS.** The Common Hop. **Pkt. 10 cts.**

## Iberis

543 **SEMPERVIRENS.** (Perennial Candytuft.) A desirable hardy perennial of easiest culture. Dwarf spreading habit; suitable for rockeries. Flowers pure white. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.**

## Kudzu Vine—(*Peuraria*)

560 **THUNBERGIANA.** (Jack-and-the-Beanstalk Vine.) A vine of wonderful rapid growth, when well established growing to the great height of 40 to 50 feet. Leaves are of enormous size. Hardy perennial. **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 25 cts.,  $\frac{1}{2}$  oz. 40 cts.**

## Lathyrus Latifolius—(Everlasting Sweet Pea)

An easily grown hardy perennial climber, bearing freely flowers somewhat similar in form to the Sweet Pea. If grown on moist soil, will bloom nearly all summer. Colors: Reddish purple, rose and white. 6 to 8 feet.

570 **Mixed Colors.** **Pkt. 10 cts.,  $\frac{1}{4}$  oz. 20 cts.,  $\frac{1}{2}$  oz. 35 cts.**

## Lavender—(*Lavendula Vera*)

575 **VERA.** A well-known hardy perennial grown chiefly for its lasting fragrance. **Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.**

# PERENNIAL FLOWER SEEDS

## Lunaria—(Honesty)

589 **BIENNIS.** Hardy biennial, but grown as annuals, admired for their silvery, papery seed pods, which are used for house ornaments. 3 feet. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

## Lupin

591 **PERENNIAL VARIETIES, MIXED.** Hardy plants of easy culture; useful as a background in the perennial border. Mixed blue and white. 2 to 4 feet. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 30 cts., oz. 50 cts.

## Lychnis

Perennial plants of easy culture, blooming the first season if sown early.

595 **CHALCEDONICA.** (Burning Star.) Bright scarlet flowers shaped like Maltese cross. Of fine color and thrifty growth; very effective in the perennial border. 2 feet. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 20 cts.

## Mimulus

Showy, free-flowering plants of easy culture. Half-hardy perennials, blooming the first season by July, if started early in the house, and continually until October. Thrives best in moist soil and somewhat shaded location. 1 foot.

630 **TIGRINUS.** (Monkey Flower.) Handsome flowers with white, sulphur or yellow ground spotted with crimson, scarlet or pink. **Pkt.** 10 cts.

631 **MOSCHATUS.** (Musk Plant.) Small yellow flowers, musk-scented foliage, of trailing habit; excellent for hanging baskets. **Pkt.** 10 cts.

## Nepeta

632 **MUSSINI.** A favorite perennial rock plant with blue gray foliage and blue flowers. 9 inches. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 30 cts.

# Pansies

Pansies are too well known to require any description, as they are favorites with all. For best results you must start with a good strain. The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

Sow Pansy seed in August or September, in fresh, moist soil, cover lightly and press seeds in with a board. Keep the bed moist by watering, and if the weather is hot and dry by mulching with straw or by shading with cloth. The seeds will germinate in about two weeks, when the straw or cloth should be removed. In from four to six weeks, transplant to a slightly raised bed, setting the plants about 3 inches apart each way. Protect during winter with straw or leaves, and transplant to desired location early in the spring. Seed may be sown in the open ground in the spring as soon as soil can be fitted.

Gentlemen:

We have been using your Ross' Selected Giant Pansy seed exclusively for the past twelve years and they have produced the finest pansies, both in color, freedom of bloom and strength of growth, in this section.

Our pansy beds are noted all over the eastern part of Massachusetts and people come from miles around to see them in April and May.

We can cheerfully recommend them to any who desire the best. They are well named "Ross' Selected Giants."

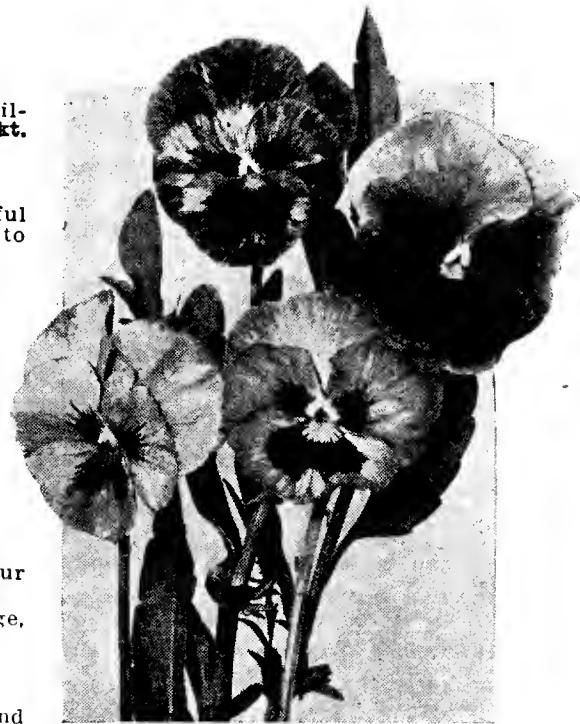
Very truly yours,  
Newton Cemetery Corp.,  
H. Wilson Ross, Supt. and Treas.

770 **BUGNOT'S SUPERB BLOTTCHED.** Rare shades of red, bronze or brown. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

771 **CASSIER'S GIANT BLOTTCHED.** A very carefully selected strain of five blotched varieties remarkable for the enormous size of the flowers and the many rare combinations of shades and colors. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

774 **TRIMARDEAU PARISIAN, LARGE-STAINED.** A beautiful improved strain mostly white ground and five blotched varieties. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

776 **MADAME PERRET.** (Phenomena.) A strain, distinctly beautiful pink, blotched or veined with rose, crimson, or purple, the upper petals either self-colored with rich wine-red or deep purple or with a margin of white. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.



778 **MASTERPIECE.** (Ruffled Pansies.) A strain having ruffled and curled petals, giving the flowers the appearance of being double. Colors rich and striking. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 70 cts.,  $\frac{1}{4}$  oz. \$1.25.

779 **WORCESTER GIANT MIXED.** Our own selections of choice large-flowered strains and varieties, including a proportion of all the preceding strains, the named separate sorts, and several choice strains from different growers. Wonderful colors, shades and markings representing nearly every type of Pansy. **Pkt.** 15 cts.,  $\frac{1}{8}$  oz. 60 cts.,  $\frac{1}{4}$  oz. \$1.00.

780 **ROSS' SELECTED GIANT MIXED.** This is one of the finest strains known, the flowers being of perfect form and richest colors. A Giant Pansy, excellent for growing in the frame or out of doors. See testimonial. **Pkt.** 50 cts., 1/16 oz. \$1.00,  $\frac{1}{8}$  oz. \$1.75,  $\frac{1}{4}$  oz. \$3.25, oz. \$12.00.

782 **LARGE FLOWERED MIXED.** Our own mixture of varieties. The range of colorings is excellent, and the mixture will be found very satisfactory. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 50 cts.,  $\frac{1}{4}$  oz. 90 cts.

783 **ENGLISH PRIZE MIXED.** Includes many with face-like markings of various shades. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

785 **CHOICE MIXED.** A mixture of many varieties. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 40 cts.,  $\frac{1}{4}$  oz. 75 cts., oz. \$2.50.

786 **GIANT ADONIS.** Splendid light blue, with white center and dark blotches. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

792 **GOLDEN QUEEN.** Pure yellow. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

794 **INDIGO-BLUE.** New rich shade. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

796 **KING OF THE BLACKS.** **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

800 **LORD BEACONFIELD.** Violet, shading to white at the top. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

804 **PEACOCK.** Rich blue and purple, edged with white; very striking. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

806 **RUBY KING.** Superb reddish shades. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

808 **SNOWFLAKE.** Pure white. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

811 **YELLOW.** With large, black eye. **Pkt.** 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

# PERENNIAL FLOWER SEEDS

## Phlox

The seed we offer has been saved from the best varieties and is supplied in mixture only.

847 **Choicest Mixed.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 60 cts.

## Platycodon (Chinese Bellflower)

855 **GRANDIFLORUM.** The propagation is more easily accomplished by seed than by division of the root. It is well adapted to the hardy border. Blooms from July to September. The flowers are large steel-blue. 2 to  $2\frac{1}{2}$  feet. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 50 cts.

## Polemonium

857 **COERULEUM.** A hardy perennial. Easily grown from seed, preferably sown in the fall. Large heads of showy blue flowers from May to August. 2 feet. Pkt. 10 cts.

## Hardy Perennial Poppies

**ICELAND POPPIES.** Though hardy perennials, generally treated as annuals, blooming the first year, if seed is sown early. They bloom profusely and, if no seed-pods are allowed to form, until October.

890 **White and Shades of Yellow and Orange. Mixed.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

**ORIENTAL POPPIES.** Easily grown from seed sown either in late fall or early spring. They bloom the second spring from sowing.

892 **ORIENTALE.** Deep crimson flowers, with blotch of black on each petal. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

893 **NEW ORIENTAL HYBRIDS.** Flowers of enormous size, sometimes 6 inches or more in diameter and of many novel colors. Pkt. 10 cts.

## Hardy Primroses

Although known as a hardy perennial, these require in this climate some protection. If protected with leaves covered by a box, they will live through our severest winters. They are early-blooming plants.

**ELATIOR (Polyanthus).** Excellent for either pot or outdoor. Colors mostly shades of yellow, and red and yellow.

903 **CHOICEST MIXED.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 85 cts.

904 **VULGARIS.** True, yellow English Primrose; canary yellow; fragrant. Pkt. 10 cts.

## Pyrethrum

Hardy perennials of easy culture.

910 **AUREUM (Golden Feather).** Golden foliage; small, white flowers. Cultivated for its foliage alone and usually treated as an annual. 1 foot. Pkt. 10 cts.

913 **ROSEUM HYDRIDUM.** Blooms freely from June to September, bearing large-flowering, daisy-like flowers ranging from light pink to deep red, with bright yellow center; excellent for cutting. Pkt. 10 cts.

## Rocket—(Sweet)

### (Hesperis Matronalis)

Hardy perennial plant of easy culture, bearing clusters of purple or white fragrant flowers.  $1\frac{1}{2}$  feet.

921 **MIXED.** Pkt. 10 cts.

## Rudbeckia (Cone Flower)

Will grow in nearly all soils and situations, thriving partial or fully exposed to the sun.

925 **NEUMANNI.** Large golden yellow flowers, with maroon cone. Blooms for a long time. Hardy perennials. 2 feet. Pkt. 10 cts.

926 **PURPUREA (Echinacea; Giant Purple Cone-Flower).** Large flowers, about 4 inches in diameter; reddish purple, with large cone of brown. Hardy perennial. 3 feet. Pkt. 10 cts.

## Sedum

949A **ACRE.** H. P. Thrives well in poor soil. Fine for rockeries and for covering bare spots. Yellow blossoms. 3 in. Pkt. 20 cts.

## Stockesia Cyanea—(Cornflower Aster)

973 **Blue.** Blooms from August to frost. 2 ft. high. Pkt. 10 cts.

974 **MIXED.** Containing many new colors. Pkt. 10 cts.

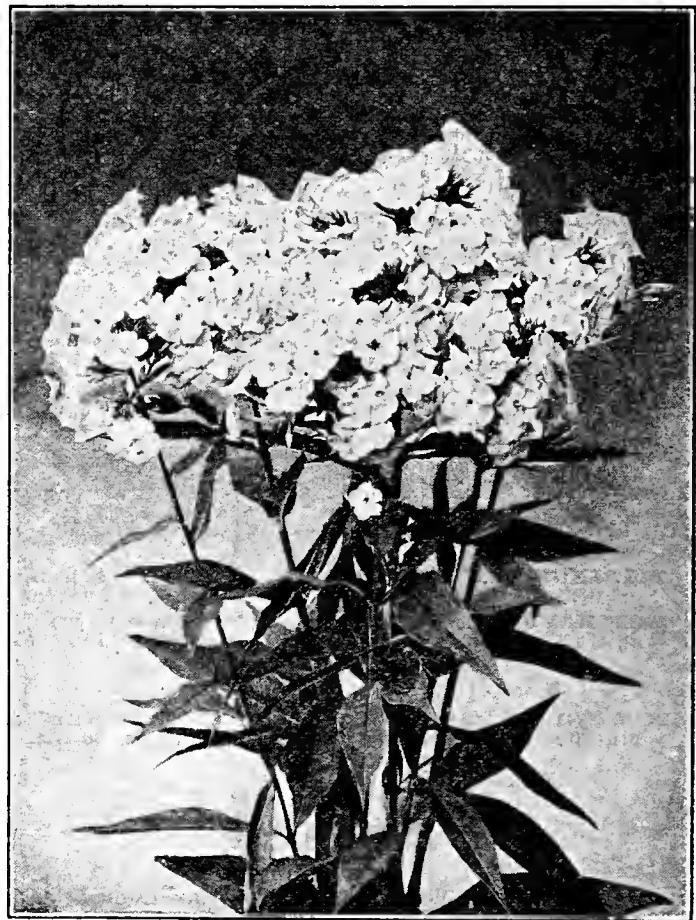
## Sweet William

### (Dianthus Barbatus)

A hardy biennial with large trusses of sweet and scented flowers produced in abundance. Seed should be sown at any time from early spring to the last of August, the late sown generally making as good plants as the early, and blooming to the full extent the following summer.  $1\frac{1}{2}$  feet.

1300 **SINGLE MIXED COLORS.** Pkt. 10 cts.,  $\frac{1}{8}$  oz. 15 cts.

1302 **HOLBORN GLORY.** A new strain of the auricular-eyed section; both the head and individual flowers are of the largest size and each of the latter shows a clear white eye; of an exceedingly wide range of colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.



Hardy Phlox

1308 **DOUBLE LARGEST-FLOWERED.** Choicest mixed. A greatly improved strain. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

1309 **SCARLET BEAUTY.** A very effective rich, deep, scarlet variety. Pkt. 10 cts.

1310 **EVERBLOOMING HYBRID (Dianthus latifolius atrocoeruleus fl. pl.)** A variety which blooms the first season from seed. Color, intense crimson-scarlet. Pkt. 10 cts.

## Tritoma

1317 **TRITOMA (Red-Hot Poker Plant, or Flame Flower).** H. P. Large spikes of orange-red flowers. Height 4 feet; effective in single clumps or among shrubbery. Pkt. 10 cts.

## Tunica

1318 **SAXIFRAGA.** Dwarf, hardy perennial bearing throughout the entire season numerous pink blossoms; an excellent rock plant. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 25 cts.

## Veronica

1330 **Herbaceous plants, bearing pretty blue flowers on long spikes.** Valuable both for the garden and for cut flowers. Hardy perennial. Pkt. 10 cts.

## Viola Cornuta

### (Tufted Pansies)

Flowers are not so large as the Pansy. It blooms profusely and quickly and easily grown. Seed sown in April will produce blooming plants in June and, if planted in cool, moist soil, partly shaded, nearly all summer. Hardy perennial.

1335 **MIXED TUFTED PANSIES.** Finest mixture of all colors. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 35 cts.,  $\frac{1}{4}$  oz. 60 cts.

## Wallflower

Half-hardy perennial. Though a fine bedding plant, it is more often grown as a pot plant. Shades of yellow, brown and reddish brown. Seed may be sown in the open ground in the spring when warm and, if given about 12 inches of room will make strong, stocky plants for winter bloom.

1340 **SINGLE.** Mixed colors. Pkt. 10 cts.

1341 **DOUBLE BRANCHING.** Mixed colors. Pkt. 10 cts.

1342 **PARIS EXTRA-EARLY.** A new single-flowered strain, blooming throughout the season, from spring-sown seed. Colors, light brown, brownish red, yellow and creamy-white. Mixed. Pkt. 10 cts.,  $\frac{1}{8}$  oz. 20 cts.

# GLADIOLUS

All Gladiolus postpaid at prices quoted

NOTE—The bulbs which we offer are all first size and should bloom one hundred percent. We would like to hear from you regarding your success.

Gladioli are the most popular of all the summer flowering bulbs and rightfully so, they have so many excellent qualities and uses.

In diversity, beauty and magnificence, no other flower which can be so easily grown and with which success is so nearly certain, can at all times compare with the Gladiolus.

CULTURE—Plant in full exposure to the sun. A light, moist soil one year from sod is the most desirable, but the Gladiolus thrives well in nearly all soils, the exception being a stiff, clayey one. While soil should be well enriched, avoid using fresh manure; use only that which is well rotted. Much the better way is to use land that was well manured the previous year, using none at the time of planting, but giving afterward one or two applications of commercial fertilizer. If possible, avoid planting in the same place for three years.

If space is limited, bulbs may be planted in double rows, four inches between the rows and two inches apart in the row; they are, however, more generally planted in single rows about one foot apart, two, three or four inches deep, according to size. The first planting may be made by the middle of April and successive ones till the first of June, but for the late planting, bulbs should be reserved.

**AFLAME.** Begonia rose shading to bright orange flame near the edges. Very large, 6 inches and over across, with six or more blossoms open at a time. **Each 20 cts., doz. \$2.00.**

**AMERICA.** One of the finest Gladiolus known. The plant is of vigorous growth, with luxuriant foliage and producing spikes two to three feet long. The flowers are very large and of an exquisite shade of soft flesh-pink. **Each 5 cts., doz. 40 cts., 100 \$3.00.**

**ANNA EBERLUS.** Wherever shown this dark velvety purple which shades into a deep Bordeaux center has created a sensation, and will undoubtedly hold a leading place among all the darker colors of this popular type of flowers so extensively grown for cutting. Very effective when used in bouquets with the yellow varieties. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**BARON HULOT or BLUE KING.** A really fine blue Gladiolus, in color a rich royal violet blue; very effective when cut and used in conjunction with Sulphur King or other yellow variety. **Each 15 cts., doz. \$1.50, 100 \$10.00.**

**CAPTAIN BOYNTON.** One of the finest lavender colors in existence. Small dark spot on lower petals. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**CARMEN SYLVA.** Pure, snow-white, throat slightly penciled lilac, stem tall, slender and wiry, always straight. Excellent for cutting. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**DR. F. E. BENNETT.** Peach red, overlaid with flame scarlet, throat speckled with ruby and white. Very attractive. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**E. J. SHAYLOR.** Beautiful, pure deep rose-pink. Very choice, ruffled. **Each 5 cts., doz. 40 cts., 100 \$3.00.**

**EMPEROR OF INDIA.** Rich, velvety maroon with white blotch in the throat; the darkest Gladiolus. A very handsome flower. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**FERN KYLE.** Large creamy white, heavily ruffled flowers, many open at a time on long, strong spike, refined variety. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**GIANT NYMPH.** A giant in growth and flowers. Light rose pink with creamy yellow throat. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**GOLD.** Pure golden yellow, throat a shade deeper, slightly dotted and streaked, almost self color. Large flowers, many open at one time and perfectly placed. A grand variety. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**GOLDEN DREAM.** Deep golden yellow, tall straight stem. Best yellow variety to date. **Each 15 cts., doz. \$1.50.**

**HALLEY.** Delicate salmon-pink predominates, with a slight rosy tinge, lower petals have a creamy blotch with a bright red stripe in center. **Each 5 cts., doz. 40 cts., 100 \$3.00.**

**LONGFELLOW.** La France pink. A pleasing color. Many large, wide open flowers on tall, slender, wiry stem. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**LOUISE.** The showiest of all Gladioli; wherever shown, meets with favor; distinct in form; clear, pure lavender; a blotch of velvet red towards center; resembles the orchid color; the flowers have been used as a substitute for orchids by leading florists; this is one variety that differs from all others; big flowers; free grower; this variety is in a class by itself. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

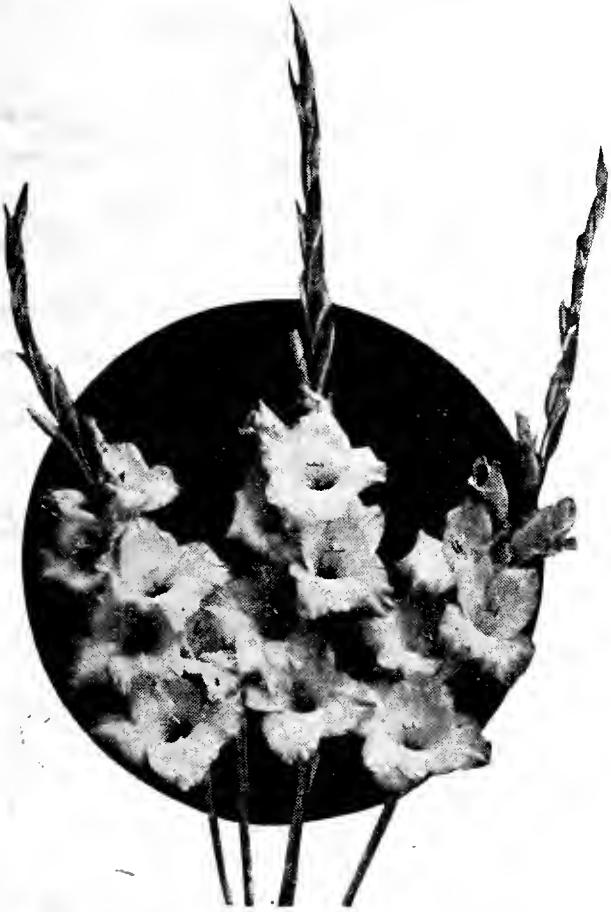
**MRS. (DR.) NORTON.** White edges suffused soft La France pink; lower petals have a blotch of sulphur yellow and are speckled at base with Tyrian rose. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**MRS. FRANK PENDLETON.** Large open flowers of light pink with dark red blotch at throat. Flowers well set on exceedingly tall spike. A very attractive and strong growing kind. **Each 5 cts., doz. 40 cts., 100 \$3.00.**

**MRS. F. C. PETERS.** Beautiful shade of rose lilac with crimson blotch bordered white on lower segment; resembling an orchid in color. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**MRS. LEON DOUGLAS.** Begonia pink striped with brilliant scarlet. Pale lemon lip slightly speckled ruby. **Each 10 cts., doz. \$1.00, 100 \$6.00.**

**NIAGARA.** A shade of rich cream combined with canary yellow; the individual flowers are very large and are borne in pairs, one opposite the other. **Each 10 cts., doz. \$1.00, 100 \$7.50.**



## GLADIOLUS—Continued

All Gladiolus sent postpaid at prices quoted

**ODIN.** Deep salmon pink with intense carmine blotch on lower petals. Large flowers on strong stem. Very early. Each 10 cts., doz. 80 cts., 100 \$5.00.

**PEACE.** Fine large white with wine pencilings on lower petals. Very good, strong and healthy. Each 10 cts., doz. 80 cts., 100 \$5.00.

**PERSIA.** Very beautiful dark red. Each 10 cts., doz. \$1.00, 100 \$6.00.

**ROSE ASH.** A grand novelty named Rose Ash by reason of its distinctive combination of old rose tones and ashes of roses. Each 10 cts., doz. \$1.00, 100 \$6.00.

**SIDNEY PLUMMER.** Beautiful soft yellow, suffused pink. Rich amber lip, amaranth purple tongue. Large blooms, slightly ruffled. Each 10 cts., doz. \$1.00, 100 \$7.50.

**SCARLET PRINCEPS.** Large spike of massive crimson-scarlet flowers, 5 to 6 open at one time. Each 10 cts., doz. \$1.00, 100 \$6.00.

**VIVIAN MAE WILSON.** Blush pink, suffused salmon with delicate lemon yellow throat. One of the daintiest Gladioli in existence. Each 10 cts., doz. \$1.00, 100 \$6.00.

**WAR.** Deep blood red, shaded crimson. One of the largest and finest of the red Gladioli. Each 10 cts., doz. 80 cts., 100 \$5.00.

**WILBRINK.** Sport of Halley. It retains the earliness of that variety, but has a delicate pale pink color, somewhat similar to "America." Each 5 cts., doz. 40 cts., 100 \$3.00.

### Our Worcester Mixture—From Named Varieties

A mixture of our own preparation comprising many named varieties, selections from all classes, unsurpassed in diversity of both colors and types and in quality of flowers. Doz. 50 cts., 100 \$3.75.

**OUR CHOICE MIXTURE.** We are making this just as good as we can for the price. It does not contain all the varieties which are included in the Worcester mixture, but it has been our purpose to make this better each year, and we know that this season it will be the best mixture that can be purchased for the price. Doz. 40 cts., 100 \$3.00.

## Primulinus Hybrids

The original of this type introduced in South Africa has been very much improved by crossing with choice garden varieties and the mixed hybrids which we offer are sure to produce some beautiful flowers. The colors are bright and varied with an undertone of yellow; from pure yellow to the deepest orange and from soft salmon pink to rich crimson.

**ALICE TIPLADY** (Prim.). A grand, large vigorous saffron-colored Primulinus, extra fine. Strong grower. Exceptional cut flowers. Each 10 cts., doz. 80 cts.

**BUTTERBOY.** A large pure-buttercup-yellow Primulinus; flowers well placed on the stem. Early. Each 10 cts., doz. 80 cts.

**DOROTHY WHEELER.** Richest rose pink with lighter throat. Each 10 cts., doz. 80 cts.

**ROSE MIST.** Old rose with buff, showing three fine buff lines on edges of all petals, 5 to 6 or more well placed blooms on a tall spike. Each 10 cts., doz. \$1.00, 100 \$6.00.

**STANDARD MIXTURE.** This mixture is made up of good standard sorts in a big variety and should not be compared with the bargain mixtures of culled and discarded kinds so often offered. We recommend this mixture to those who desire a quantity of good flowers without special reference to color effect. Each 5 cts., doz. 40 cts., 100 \$3.00.

## Decorative Dahlias

All Dahlias sent postpaid at prices quoted.

**AMERICA'S GLORY.** A light, bright scarlet, evenly tipped purest white, never producing solid colored flowers. Extra fine, long, stiff stems holding flowers seven to ten inches across perfectly upright. Each \$2.00.

**ELLINOR VANDERVEER.** One of the most admired Dahlias in our garden. Color lavender pink; flowers large size, on long stiff stems; good bloomer and keeps well when cut. Each 75 cts.

**EL DORADO** Vivid gold coloring, which is emphasized by the deeper tones at the base of the petals. Extra fine flowers and a good stem. Each \$1.00.

**FAITH-GARIBALDI** (Dec.). Deep lavender rose, very large, stem extra strong, growth of plant good. Each \$1.00.

**JERSEY'S BEAUTY.** A very fine true pink, flowers of perfect shape produced on long, straight, stiff stems. Very free bloomer, and a splendid keeper. Each 50 cts., doz. \$5.00.

**MRS. JOHN L. EMERSON.** One of the largest and most attractive Decorative Dahlias grown. In color, a beautiful light golden yellow, overlaid carmine red. A favorite garden and exhibition Dahlia that will produce six to eight inch flowers. Each 50 cts., doz. \$5.00.

**PRIDE OF WAYNE.** Produces flowers of enormous size on stiff stems. Color a beautiful rich plum. Fine for exhibition, and should be in every garden. Each \$1.00, doz. \$10.00.

**ROSE FALCON.** Giant, old gold flower of finest form and type. Excellent stems, never opens up in the center, quite erect. Each \$1.00.

**THE BOSS.** This new Dahlia is a large 7 inch decorative, of clear lemon yellow with a very light white tip to the petals. The stem is good and stiff, and the flower has considerable depth to it. Each \$4.00.



Peace

## Dahlias—Continued

### Decorative Dahlias

**BONNIE BRAE.** Cream shaded to blush-pink. The flowers are of a true decorative form of immense size. Each 50 cts., doz. \$5.00.

**CASPER G. WARE.** Flowers are large, usually eight to ten inches across, regularly formed and produced profusely on strong stems. Color, bright, clear violet rose. Heartily recommended as a pleasing novelty. Each \$1.00.

**CLIFFORD W. BRUTON.** A large canary-yellow. Each 25 cts., doz. \$2.50.

**FRANK A. WALKER.** A charming shade of deep lavender-pink. For garden decoration or for cut flowers this variety is exceptionally good, having long stems and producing flowers in great abundance. Each 25 cts., doz. \$2.50.

**GLORIANA.** Immense flowers of pure gold color, slightly reddish towards center. Long leafless stems. None better for exhibition or cutting. Each 50 cts., doz. \$5.00.

**JACK ROSE.** The identical shade of the rose with the same name. Free-flowering. Each 25 cts., doz. \$2.50.

**JANE COWL.** (Downs.) A massive, deep decorative. Color is a glistening bronzy-buff and old gold, deepening in shade towards the center. A stem of unusual strength holds the gigantic flower erect. Each \$1.50.

**JUNIOR.** An enormous flower, one of the largest Dahlias grown. A pure lavender. Fine for exhibition purposes. Each 75 cts.

**LE GRAND MANITO.** The color of this superb variety is pure white artistically striped, splashed and blotched deep violet-purple. The plants occasionally bear a solid purple-colored flower. Each 25 cts., doz. \$2.50.

**MRS. EDITH HAYWARD.** The color is a clear lemon yellow, it will produce flowers from 6 to 8 inches in diameter and has a wonderful stem and will keep longer after being cut than any other Dahlia. Each 50 cts., doz. \$5.00.

**MRS. I. DE VER WARNER.** Deep mauve-pink. One of the very best Dahlias grown. Long stiff stems and excellent for cut-flowers. Each 50 cts., doz. \$5.00.

**ORA DOW.** A beautiful velvety maroon, effectively tipped white. Each 25 cts., doz. \$2.50.

**PRIDE OF CALIFORNIA.** Called the "American Beauty" Dahlia. Huge crimson red flowers, produced on long straight stems. Each 25 cts., doz. \$2.50.

**ROMAN EAGLE.** A decorative ten inches in diameter of flaming, brilliant, burnished copper, a typical Autumn shade. Medium-size plant, dark-green foliage and long stems. Each 50 cts., doz. \$5.00.

**WILHELM MILLER.** Very brilliant purple. This is a fine variety. Each 25 cts., doz. \$2.50.

**THE BASHFUL GIANT.** One of the largest dahlias grown, its beautiful color being an apricot with golden shadings. Each 50 cts., doz. \$5.00.

### Cactus Dahlias

**ALICE WHITTIER.** One of the best yellow cactus ever offered; 8-10 inch flowers. Each \$2.00.

**BERTRAM S. VARIAN.** (Incurved Cactus.) A very brilliant, deep scarlet of the moderately incurved form, of good size on long stems. This is one of the freest flowering Dahlias in our list. 50 cts. each, doz. \$5.00.

**BRIDE'S BOUQUET.** (Hybrid.) An ideal white cactus and profuse bloomer, extra long stem, and a Dahlia that stands up well when cut. 25 cts. each, doz. \$2.50.

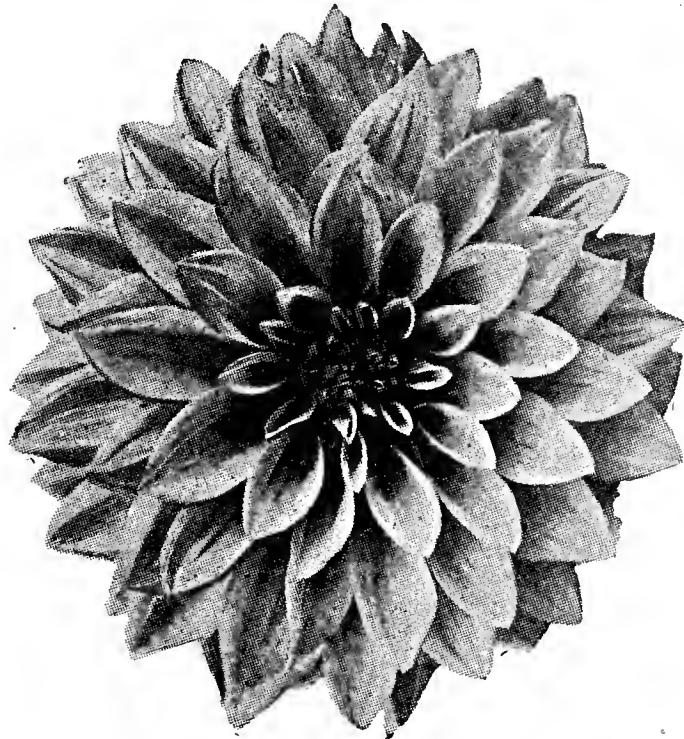
**COUNTESS OF LONSDALE.** (Hybrid.) Deep salmon-red. One of the best. Very free. 35 cts. each, doz. \$3.50.

**EARL OF PEMBROKE.** (Hybrid.) Bright plum color; large bold flower. 25 cts. each, doz. \$2.50.

**EUREKA.** (Straight.) Color very deep purple. Petals are long, straight and tightly quilled. 25 cts. each, doz. \$2.50.

**LIBELLE.** (Straight.) Clear, deep rose-purple. 15 cts. each, doz. \$1.50.

**PERLE DE LYON.** (Hybrid.) A pure white exhibition variety of great value. Petals fringed or nicked, giving unique appearance. 35 cts. each, doz. \$3.50.



Mrs. I. De Ver Warner

### Show Dahlias

**A. D. LIVONI.** Beautiful soft pink. Well formed flowers with long stems. Free-flowering. 25 cts. each, doz. \$2.50.

**AMERICAN BEAUTY.** The flowers are of gigantic size and are produced on long, heavy stems, well above the foliage. The color of this acquisition is a gorgeous wine-crimson. 25 cts. each, doz. \$2.50.

**D. M. MOORE.** Deep velvety maroon, almost black; extra fine. 35 cts. each, doz. \$3.50.

**GLORIE de GUISCARD.** An almost indescribable combination orange, red, yellow, pink and white. 25 cts. each, doz. \$2.50.

**IMPERIAL.** Deep purplish maroon. 25 cts. each, doz. \$2.50.

**MAUDE ADAMS.** The color is a pure snowy white, very effectively overlaid clear delicate pink. 35 cts. each, doz. \$3.50.

**VIVIAN.** A wonderful flower, the color being white, effectively edged rose-violet. One of our champions and a variety worthy of the highest words of praise. 25 cts. each, doz. \$2.50.

### Pompon Dahlias

**AMBER QUEEN.** Rich, clear amber, shaded apricot. Each 25 cts., doz. \$2.50.

**MIDGET.** Salmon, edged pink, a novel and distinct variety. Each 25 cts., doz. \$2.50.

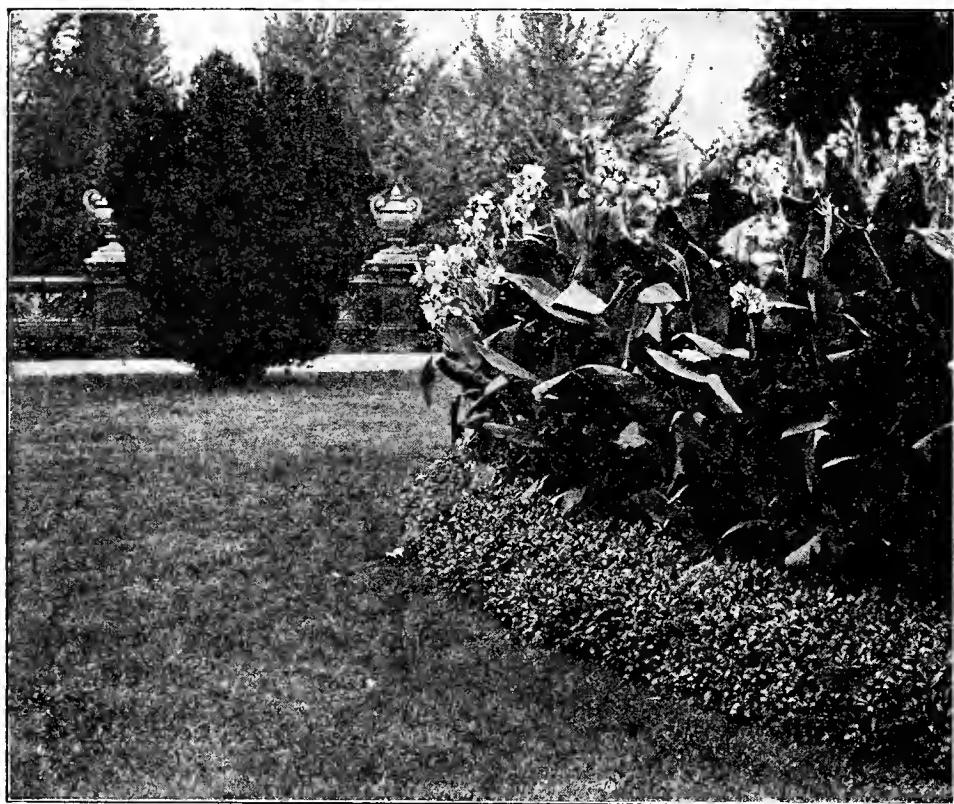
**JESSICA.** Yellow, edged red—a very effective combination. Each 25 cts., doz. \$2.50.

**PRINCE CHARMING.** Cream, tipped purple. One of the best. Each 25 cts., doz. \$2.50.

### Mixed Dahlias

Postpaid, \$1.00 per doz.; by express, 90 cts. per doz.; \$6.00 per 100.

These include some of our best varieties, those of which labels have been lost, and at times varieties of which we have a surplus.



## Best Quality Cannas

Dormant roots of the varieties listed below until May 1st only. Postpaid.

For a brilliant show all summer there is no plant excelling the Canna; it even surpasses the Geranium in its gorgeous display of brilliant colors, blooming continuously from the time of planting until cut down by frost. Plant 18 inches apart each way.

Prices of varieties listed below: Each 10 cts., doz. \$1.00.

**APRICOT.** This recent introduction brings us a new shade of red and a most gorgeous flower. The blossoms are very large and of a clear, velvety shade of deep cerise. Deep green foliage.

**KING HUMBERT.** Truly a king among the cannas; its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad, deep bronze foliage. It grows 4 feet high and is splendid as a center; edge with a dwarf yellow canna.

**SHENANDOAH.** This is a dwarf bronze foliage, pink of merit. The blossoms open a light carmine pink and later develop a light salmon tint which is spread evenly over the whole flower. It grows from three to four feet.

**THE PRESIDENT.** Height 4 feet. in color, a rich, glowing scarlet and the immense, firm, rounded flowers, 7 inches across when open, are produced on strong, erect stalks well above the large, rich green foliage.

**WYOMING.** Might be called King of the Giants, for it is one of the most majestic, with the double attraction of having a luxuriant growth of rich purple foliage. Above this are borne great plumes of massive orange-colored blossoms, true orchid-shaped, with large rounded petals.

**WINTZERS COLOSSAL.** 5 feet. Green foliage. A striking, vivid scarlet that retains its brilliancy. One of the largest flowering of all, producing immense trusses.

**YELLOW KING HUMBERT.** A sport of that most popular of all Cannas, King Humbert, producing large flowers of a beautiful shade of yellow, lightly spotted red, with green foliage, five and six clusters of flowers at a time.

## JAPANESE LILIES

Postpaid

**AURATUM.** (Golden Banded Lily.) Enormous, measuring frequently 8 to 12 inches across; pure white, spotted crimson, each petal marked in the center with a band of yellow. Flowers in August; delightfully fragrant. Each 30 cts., doz. \$3.00.

**SPECIOSUM ALBUM.** The best late flowering pure white, hardy garden lily; of easy culture. The graceful stems and foliage are set off to wonderful advantage by the pure white blooms. Each 30 cts., doz. \$3.00.

**SPECIOSUM RUBRUM OR ROSEUM.** Delicate pink, almost white, spotted red; one of the old garden favorites; height 3 feet; flowers in August and September. Each 35 cts., doz. \$3.50.

## REGALE LILY (*Lilium Myriophyllum*)

Postpaid

It is a pure, waxy white, with a lemon yellow throat and a trumpet about 6 inches long, and when the flower is fully developed it is about 7 inches across; 2-2 1/2 inches in diameter. Each 45 cts., doz. \$4.50. Smaller size flowering bulbs. Each 35 cts., doz. \$3.50.

## STRAWBERRY PLANTS

All strawberry plants are growing when your order is received. We do not handle cold storage plants. All orders will be sent direct from the nurseries in Massachusetts whenever possible, and the plants should reach our customers in fresh condition.

While it is not our custom to substitute, we feel that in the event of our being sold out of any variety, it would be to the advantage of our patrons to allow us this privilege.

Varieties marked Imp. are imperfect and must be planted with some perfect variety marked Per.

**HOWARD 17 (PER.).** One of the best early berries, bright red color, large size, very productive and firm. 100 \$1.50, 500 \$7.00.

**DUNLAP (PER.).** The Universal Berry. Does well everywhere. Grown very extensively throughout the country. Fine for home use or shipping. Mid season. 100 \$1.50, 500 \$7.00.

**COOPER (PER.).** One of the best for wayside stands. Brings an extra price on account of its large size and handsome appearance. An excellent berry to follow early varieties and prolong the season. 100 \$1.50, 500 \$7.00.

**CORSICAN (PER.).** The flavor is mild, the berries extra large. One of the best. Good for home use, wayside stands or shipping. Mid season. 100 \$1.75, 500 \$7.50.

**BIG JOE (PER.).** Berries dark, glossy red of fine appearance. Firm, a good shipper. Fine flavor. Late. 100 \$1.75, 500 \$7.50.

**WILLIAM BELT (PER.).** Considered the best flavored berry grown. Bears large crops of sweet, juicy berries and does extra well the second year. An old variety, but seems to become more popular each year. Late. 100 \$1.75, 500 \$7.50.

## Everbearing Varieties

**CHAMPION.** Fruit is large and firm, good shape and color. A fine home variety. Postpaid. 100 \$2.75, 500 \$12.00.

**MASTODON.** The berries are very large and hold their size well. Plants set in spring begin bearing in August and bear until the ground freezes. 100 \$2.75, 500 \$12.00.

Postpaid on the Above.  
Catalogue on potted plants mailed on request. Ready July.



## Fertilizer and Fertilizing Materials

This is one of our specialties and we can furnish either ready mixed or unmixed goods for all purposes. Parties wishing for larger quantities than are quoted are requested to write for special price. We can make you very low price on carload of mixed goods, also on Canada Hardwood Ashes, Bone, Lime, Nitrate of Soda and Sulphate of Ammonia. Where we can save the expense of handling and storing this material and can sell on a cash basis, we can compete with anyone selling similar goods.

### ARMOUR'S BIG CROP 5-8-7 FERTILIZER

An ideal fertilizer for Market Gardeners and potato growers.

#### Guaranteed Analysis:

Nitrogen	5%
Available Phos. Acid	8%
Potash	7%

Price: Per 100 lbs. \$3.00. Get our price on larger quantities.

### ARMOUR'S BIG CROP 4-8-4 FERTILIZER

This is a strictly high grade fertilizer designed for potatoes, vegetables, onions, etc.

#### Guaranteed Analysis:

Nitrogen	4%
Available Phos. Acid	8%
Potash	4%

Price: Per 100 lbs. \$2.50, 50 lbs. \$1.35, 25 lbs. 85 cts.

### ADCO ARTIFICIAL MANURE

ADCO is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard products in fertilizing power, but free from foul odor, flies, weed-seeds, etc. Anybody can make ADCO Manure. The process is perfectly simple and not at all laborious. Price: 25-lb. bag. \$2.00, 100 lbs. (4-25) \$7.75.



The desirable lawn and garden top dressing and soil conditioner. The ingredients are just manure from high protein fed cows and quality peat moss functioning as a humus making material. Packed in bags weighing about 50 lbs. 3 to 3½ bushels in bulk. Per 50-lb. bag \$3.00, 5-bag lots \$2.50 per bag. Ton prices on application.

### IMPORTED GROUND PEAT FOR HORTICULTURISTS

Finely Ground (granulated) Peat is of recognized value to the florist, gardener, or nurseryman.

In potting, in propagating and transplanting, in the garden, or on the lawn, its benefits have been proved by years of use. Price: Standard bale \$2.75.

**CANADA HARDWOOD ASHES.** Analysis: Potash, 3 to 5 per cent; Phos. Acid, 1 to 3 per cent; Lime, 30 to 40 per cent; moisture, 12 per cent. We handle these in large quantities and can quote carload price delivered at any freight station in New England. F. o. b. Worcester. Price: Per 50 lbs. \$1.00, per 100 lbs. \$1.85, per ton \$32.50. Car lots in bulk delivered at all through points, \$23.00 ton.

**AGRICULTURAL LIME.** Should be applied at the rate of one ton per acre. Price: Per bag, 100 lbs., \$1.15. Ton prices on request.

### VELVET LAWN

(Sulphate of Ammonia)

FEEDS the grass



STARVES the weeds

A highly concentrated plant food—easy and economical to use.

Holds in check the worst lawn weeds—plantain, buckhorn, dandelion, crab grass, chickweed. Specially processed to remove or neutralize all moisture-attracting elements—will not cake nor rot bags.

Has and retains a beautiful, fine, dry condition, making it easy to scatter by hand and insure even distribution.

Prices: 26 oz. 25c, 5 lbs. 60c, 10 lbs. \$1.15, 25 lbs. \$2.25, 50 lbs. \$3.50, 100 lbs. \$5.00.

**PLASTER.** Gypsum (Land Plaster). Plaster plays a very important part in the proper fertilization of the land. The ideal way to use Agricultural Gypsum is with manure, for in this way the Agricultural Gypsum serves the double purpose of preserving the nitrogen in the manure and directly supplying sulphate sulphur to the land. Price: Per bag, 100 lbs., \$1.50; per ton, \$28.00.

**CHAMPION BRAND CHILEAN NITRATE OF SODA.** The new nitrate of soda. No beating or regrinding. It is snow white and is in the form of small round pellets which cannot stick together. It can be distributed by side dressing machines because it will not solidify into lumps that require beating and regrinding. Purity 97 per cent. New moisture proof 100-lb. bags. Price: 5 lbs. 40 cts., 25 lbs. \$1.25, 50 lbs. \$2.00, 100 lbs. \$3.50.

**MURIATE OF POTASH 48%.** A highly concentrated form of potash. Used in forcing vegetables and with a filler as a general fertilizer. Price: 100 lbs. \$3.75.

**SULPHATE OF AMMONIA 20.56%.** The most concentrated nitrogenous top dressing on the market. Price: 5 lbs. 40 cts., 25 lbs. \$1.25, 50 lbs. \$2.00, 100 lbs. \$3.50.

**SULPHATE OF POTASH 48%.** It is the most highly concentrated form in which this very important plant food element is obtainable. Price: 100 lbs. \$4.50.

**FINE GROUND BONE.** 2.47% nitrogen, 22% phosphoric acid. Price: Per 25 lbs. 90 cts., per 50 lbs. \$1.50, per 100 lbs. \$2.75.

**TOBACCO DUST.** Fine, ground; for greenhouse use this is one of the best articles for dusting all kinds of plants that are affected with insects of any kind. Per bag 100 lbs. \$5.00, 50-lb. bag \$2.75, 5 lbs. 40 cts.

**TOBACCO STEMS.** Used for fumigating, also used by some as a top dressing for fertilizer. We can furnish these in any quantity, even to carload lots. Prices: 5 lbs. 50 cts., 100 lbs. \$3.00.

## Armour's Big Crop High Analysis Fertilizers Cut the Cost to Grow

Nit.	APA	Pot.	Ton	100 lbs.
6%	11%	10%	\$49.80	\$3.25
2%	8%	10%	39.80	2.75
8%	16%	14%	65.10	4.00
7%	6%	6%	44.70	3.00



Nit.	APA	Pot.	Ton	100 lbs.
4%	8%	7%	\$41.00	\$2.75
4%	16%	4%	43.50	3.00
16% Acid Phosphate			22.70	1.50

Sold in 100-lb. bags only. All prices in this catalog subject to change without notice.

# VIGORO

*Specially prepared plant food*

## grows beautiful lawns and flowers

You will find that Vigoro, the ideal plant food, gives a quick, vigorous start—more velvety green grass, better flowers, crisp, succulent vegetables.

Vigoro is complete, properly balanced, clean, odorless, and pleasant to handle. It can be sown by hand like grass seed.

Vigoro contains all the elements that plant life requires for healthy growth. Professional gardeners and home owners alike have come to rely upon Vigoro and recommend it enthusiastically.

5 pound package	\$0.60
25 pound bag	2.00
50 pound bag	3.75
100 pound bag	6.00

Full directions in every bag.

### How Much Vigoro Does Your Home Need?

A lot 30 ft. x 125 ft. needs	75 lbs. Vigoro.
A lot 50 ft. x 125 ft. needs	150 lbs. Vigoro.
A lot 75 ft. x 150 ft. needs	250 lbs. Vigoro.
A lot 100 ft. x 150 ft. needs	350 lbs. Vigoro.
A lot 150 ft. x 150 ft. needs	675 lbs. Vigoro.

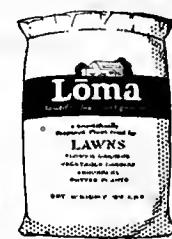
(Sold only in original packages—never in bulk)



# Lōma

## beautifies lawns and gardens

To build up a lawn you can be proud of, use Lōma—the scientific plant food. Lōma is rich in potash, phosphate and nitrates—just the food elements your lawn or garden needs. Lōma promotes deep root-growth—makes the grass so sturdy it won't burn out quickly in the summer sun, so thick that it actually crowds out the weeds. Lōma is odorless, clean—many times more powerful than barnyard manures. Just sow it over the lawn like grass seed. Then wet it down. A 5-pound package fertilizes a 10 ft. x 10 ft. plot.



5 pound package	\$0.50
10 pound package	.85
25 pound package	1.75
50 pound package	3.25
100 pound package	6.00

(Sold only in original packages—never in bulk)

### Application

5 pounds for 10 ft. x 10 ft. or 100 sq. ft.
10 pounds for 10 ft. x 20 ft. or 200 sq. ft.
25 pounds for 20 ft. x 25 ft. or 500 sq. ft.
50 pounds for 25 ft. x 40 ft. or 1000 sq. ft.
100 pounds for 40 ft. x 50 ft. or 2000 sq. ft.

# BloomAid

The complete plant food for flowers, vegetables, tubers and bulbs, all farm crops, shrubs and trees. A highly concentrated chemical fertilizer.

Put up in three convenient easy to use forms. Tablets for potted plants and window boxes, price per pkt., 25c; Liquid Bloomaid to feed plants as they are watered, price 8 oz. bottle, 50c. Pulverized. Price: 1 lb., 35c; 5 lbs., 60c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$6.00.

# Fairway

GRASS FOOD

Prepared especially for feeding both new and established lawns and fairways. The ideal food for grass. It is a rich blend of the precise elements grass needs—a complete diet, a balanced ration. Prices: 10-lb. bag \$1.00, 25-lb. bag \$2.00, 50-lb. bag \$3.75, 100-lb. bag \$6.00.

## Groz-It Brand Pulverized Sheep Manure

For Market Gardeners and Specially Recommended for Lawns

Will not burn your plants, no matter in what quantities you use it, but is highly concentrated and safe for anyone to use. Can be used safely at the rate of 50 lbs. per 1,000 sq. ft., or as a general fertilizer for all crops from 1,000 to 2,000 lbs. per acre. It makes the richest and safest liquid manure, using 1 lb. to 5 gallons of water.

### ANALYSIS

Nitrogen .....	1.25%	Available Phosphoric Acid .....	.75%
Water Soluble Potash K <sub>2</sub> O .....	3.00%		

Prices: 5 lbs., 30c; 10 lbs., 50c; 25-lb. bag, \$1.00; 50-lb. bag, \$1.75; 100-lb. bag, \$3.00; ton (2,000 lbs.), \$50.00.

## Premier Poultry Manure

PULVERIZED POULTRY MANURE—NATURE'S BEST PLANT FOOD

Processed Poultry Manure is one of the safest and most reliable forms of plant food than can be applied to soil and will not burn or injure the most delicate and tender vegetation if used in reasonable amounts. Last, but not least, it possesses a bulk that adds available humus forming material to the soil, and the plant food is not readily lost by leaching.

### GUARANTEED ANALYSIS

Nitrogen .....	4.93%	Available phosphoric acid .....	2.50%
Equivalent to ammonia .....	6.00%	Potash as K <sub>2</sub> O .....	1.30%
Total phosphoric acid .....	2.75%		

Prices: 5-lb. bag 40 cts., 10-lb. bag 75 cts., 25-lb. bag \$1.00, 50-lb. bag \$1.75, 100-lb. bag \$3.25, ton (2,000 lbs.) \$50.00. Special prices in larger quantities.

The NIAGARA Crop Dusters have "put the Dusting Method over" in every section where insecticides and diseases must be controlled if clean crops are grown.

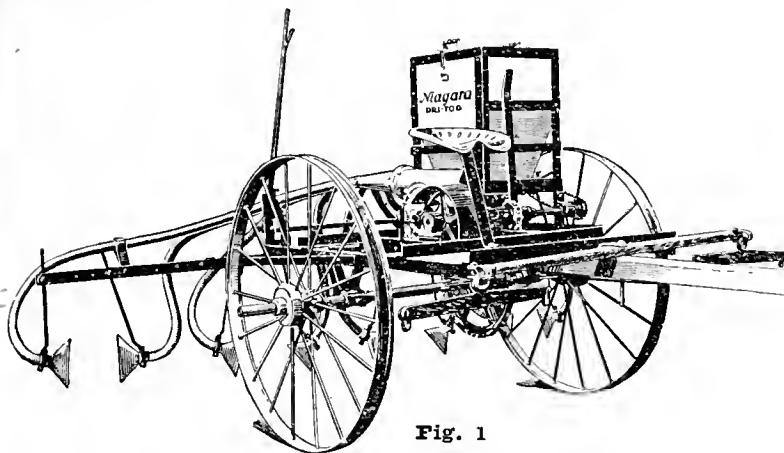


Fig. 1

### NIAGARA "Dri-Fog" Crop Duster

This is the latest NIAGARA achievement.

This 4-row potato and truck crop duster will completely cover the under and upper surfaces of the foliage with a film of dust and do it at the rate of 30 to 35 acres per 10-hour day. It will deliver from 3 lbs. to 100 lbs. of dust per acre and distribute it absolutely accurately on each of the four rows.

The NIAGARA Dri-Fog Crop Duster, 4-row, 8-nozzle. Price f. o. b. factory.....\$240.00

### Niagara Spraying Materials

These materials manufactured and distributed exclusively by the Niagara Sprayer and Chemical Co., Inc., Middleport, New York, represent the greatest spray material service in the trade. Each material represents a distinct specialized package service and contains just exactly the correct ingredients in the right proportions to control.

### NIAGARA Duo-Bordo

Consists of lime and bluestone all weighed out in 5-lb. bags for making fresh Bordeaux Mixture instantaneously right in the spray tank. A package each of chemical lime and finely ground bluestone so processed as to be instantly soluble. Directions for mixing on packages. Makes a real Bordeaux Mixture—every membrane gelatinous. Ask for circular. Packed in 50-lb. cartons—consisting of 5 bags of bluestone and 5 bags of lime—enough for 250 gals. spray. Price per 50-lb. carton, \$4.00.

### NIAGARA Koloform

The New Exclusive NIAGARA Summer Sulphur Spray Material that has the greatest toxicity to disease of any Sulphur Spray Compound, used for the control of diseases only in summer spraying. Carton contains eight 7½-lb. bags.

60-lb. carton .....\$3.85  
7½-lb. bag ..... .65

### EMULSO (A NIAGARA Product)

Emulso is a typical LARGE DROP, MECHANICAL TYPE OIL EMULSION made from especially selected oils, using an exclusive Emulsifying Agent and stabilized to insure its not breaking down in shipping and storage.

Packed in ..... Price per gal.  
50-gal. bbls. ..... \$0.40  
30-gal. steel drum ..... .45  
10-gal. cans ..... .80  
5-gal. cans ..... .95  
1-gal. cans ..... 1.25



A complete insecticide and fungicide combined has been in demand by the public for years. At last we have a single all-purpose dust and spray which we can recommend without reservation, with the extra advantage that because of its color it is practically invisible. It can be used effectively against both chewing and sucking insects (Aphis) and will positively control most of the diseases of flowering plants and shrubs. Highest rating given in tests conducted by American Rose Society.

Price 1-lb. can.....\$0.75  
Price 5-lb. can..... 3.00

### NIAGARA Dusting Materials

NIAGARA Dusts are the standard by which all dusts are judged. The years of knowing how and actually processing dusts by the Niagara Sprayer and Chemical Co., Inc., is your assurance that the dusts offered below are MECHANICALLY CORRECT AND SCIENTIFICALLY ACCURATE.

### NIAGARA Copodust

The New, Exclusive Niagara Copper-Lime Fungicide for potato and other field crops.

Per 100-lb. drum.....\$7.50

### NIAGARA Copotex

The New, Exclusive Niagara Copper Lime Dust for field crops, with poison added, for potato bugs, etc.

Per 100-lb. drum.....\$9.40

### NIAGARA Vitidust

The Standard Copper Lime and Poison Dust for apples and grapes, used to control disease and chewing insects.

Per 100-lb. drum.....\$7.50

### NIAGARA D-18

The Standard Copper Lime and Poison Dust used to control potato bugs and diseases on all truck crops.

Per 100-lb. drum.....\$8.40

### NIAGARA D-25

The Standard Copper Lime Dust, used for the control of diseases only, on potato and truck crops.

Per 100-lb. drum.....\$7.05

### NIAGARA A-1 Nicotine Dust

The Standard Contact Dust, used to control sucking insects, aphis, red bugs, pear psylla, etc.

Per 100-lb. drum.....\$16.00

For small quantities of the four above materials add 1½¢ per lb. for 50-lb. drums and 3¢ per lb. for 25-lb. drums.

### NIAGARA Kolodust

The New Exclusive NIAGARA Dust that "sticks through rain and wind." This is a fungicide only, used in the control of diseases on fruit and flowering plants.

Per 100-lb. bag.....\$5.20

### NIAGARA Kolotex

The New Exclusive NIAGARA Sulphur and Poison Dust that "sticks through rain and wind." This is a fungicide and stomach poison combined, used for the control of codling moth, strawberry weevil and diseases on apples, pears, etc.

Per 100-lb. bag.....\$6.75

### NIAGARA Kolokil

The New Exclusive NIAGARA Sulphur and Poison Dust containing extra large percentage of Arsenate of Lead. This material is used wherever extra heavy ravages of chewing insects prevail; also in controlling such diseases as may be present.

Per 100-lb. bag.....\$7.35

## Niagara Dusting Machines and Equipment

Dusting saves time, labor and money, and, because of the ease and rapidity in making applications of insecticides and fungicides, very often produces the difference between failure and success.

NIAGARA QUALITY PRODUCTS are known wherever fruit and truck crops are grown.

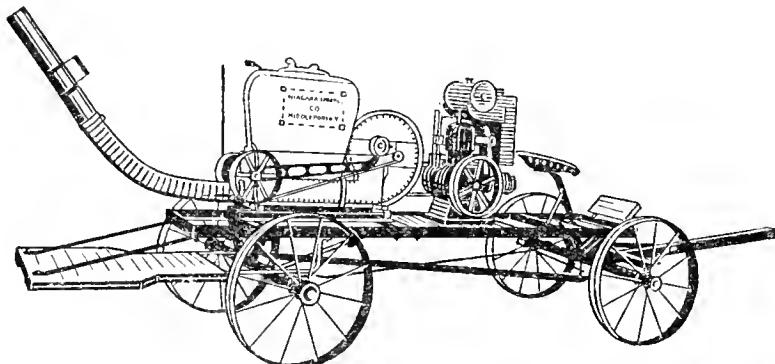


Fig. 2

### Savage Duster

#### Sprays Everything in Powder Form

Easier to carry and operate than any hand duster made. Perfect balance. Ball bearings and gears packed in grease, require no lubrication. Discharge tube may be raised or lowered for low or high plants or trees so that the operator always stands in an upright, comfortable position.

Built of the finest material and workmanship and made to stand long, hard service.

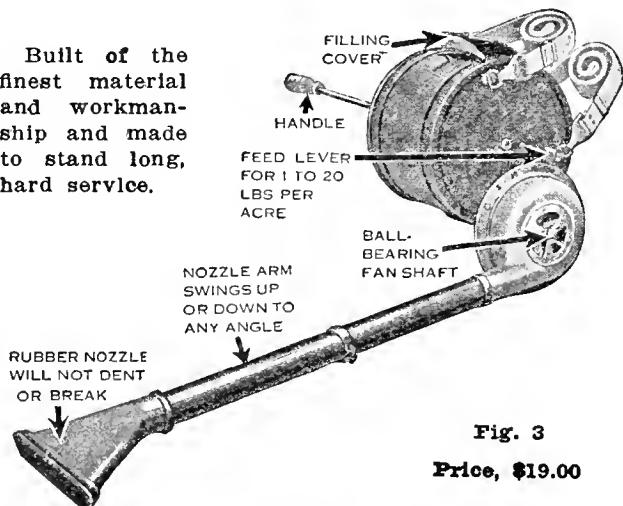


Fig. 3

Price, \$19.00

### Platz Green Hand Duster

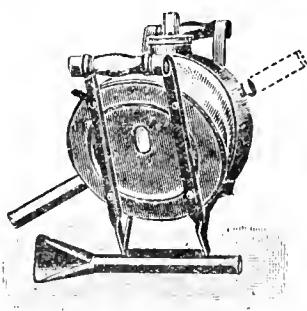


Fig. 5

Materials must first be sifted. Discharge pipe can be arranged to throw dust up or down. Has large, powerful leather bellows. Capacity, four pounds. Price, \$6.00.

### Platz Famous Hand Duster

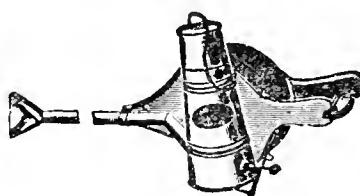


Fig. 6

Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches. Compact and efficient. Capacity, one pound. Price, \$5.00.

See Inside Front Cover of Catalogue for Parcel Post Rates.

### NIAGARA Model F Fruit Duster

This is the Duster that has perfected and substantiated the Dusting Method wherever fruit is grown.

With this Duster, a man and boy can dust 50 acres of mature apple trees planted 35 feet each way, from both sides, in ten hours.

The NIAGARA Model F Orchard Duster, equipped with 6-10 H.P. Twin New-Way Air-Cooled Engine or 6 H.P. Novo two-cylinder radiator Water-Cooled Engine, mounted on a special All-Steel Orchard Truck.

Price f. o. b. factory.....\$475.00

### The Peerless Protects Plants

The Peerless is a Perfectly Balanced Machine — Load is Divided Front and Rear. The hopper containing the material is in the rear of the operator, the crank is directly in front, allowing a full and free arm movement without straining the shoulder. It can be easily adjusted to any size man. There is a body support attached to a universal joint, permitting the operator to direct the gun to a wide range of action, and allows the machine to rest in a comfortable position.

The Peerless is adaptable for dusting all ground crops and small fruit trees. Has a very complete set of interchangeable parts and with the metal flexible joints a set-up can easily be made for any job. The Peerless is equipped with a specially designed outfit for fighting the Mexican Bean Beetle. It is indispensable for many other insects that feed and multiply on the underside of the leaf where they are exceedingly difficult to reach, particularly on potatoes, tomatoes, melons, peas and other vines. This attachment is adjustable, straddles the row, forces the dust to each side and underneath the foliage in direct contact with the pest. This is an ideal method for applying Nicotine Dust.

The Peerless has a force feed, and can easily be regulated to discharge a very thin vapory dust to a dense cloud.

Price, \$22.50.

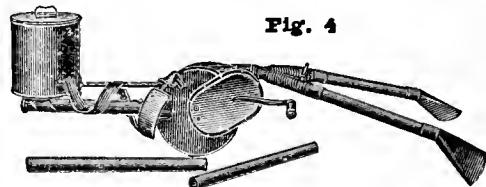


Fig. 4

### Acme Powder Gun

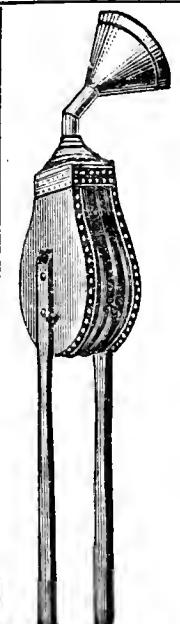
A simple, practical implement for the extermination of potato-bugs and all kinds of insects, flies, etc.; the pests of home and garden.

Net price, single, \$1.50.

Weight, 4 lbs.

For parcel post rates see inside front cover.

Fig. 7



## McCormick-Deering Tractors at New Low Prices

McCormick-Deering tractors, the 10-20, 15-30, and the Farmall, have back of them more than twenty-five years of tractor-building experience and nearly a century of manufacturing activity. They have outstanding performance records in length of service, work accomplished, and low cost of operation in all types of farming and are now offered at new low prices.

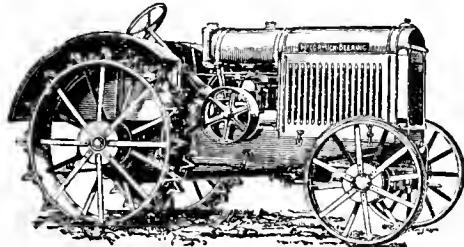


Fig. 8

The Farmall has successfully motorized every crop production job, from seed-bed preparation to harvesting, including the planting and cultivating of row crops. It replaces from 6 to 10 horses and 2 to 3 men on every farm power job. It can plow 7 to 9 acres a day, double disk 18 to 25, plant 50, cultivate 30 to 50, mow 50 to 60 and other work in proportion.

### Special Features

- Ball bearing crank-shaft.
- Removable cylinders.
- Unit construction.
- Triple power.
- Ball and roller bearings throughout
- Alemite-Zerk lubrication.

Come in and ask us all the questions you wish about these versatile, profit-producing power plants.

Illustrated circular on request.

Factory-sealed  
throttle governor.

Adjustable draw-bar.

Fuel strainers.  
Oil air cleaner.  
Oil filter.  
Three forward speeds, etc.

**Prices:**  
10-20, F.o.b. Boston.....\$ 858.00  
Farmall, F.o.b. Boston..... 870.50  
15-30, F.o.b. Boston..... 1,100.00

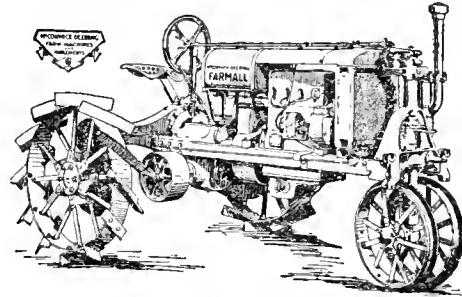


Fig. 9

## McCormick-Deering Little Genius Tractor Plow

The No. 8 Little Genius tractor plows combine the rugged construction and easy, efficient operation which have always characterized Little Genius plows with several new and decidedly advantageous features which make them most satisfactory plows to sell. Simple design, great strength and rigidity of parts, and a wide range of possible equipment adapt the No. 8 Little Genius to more uses than probably any other plow that was ever built.

No. 8 Little Genius plows are easy to set up and easy to adjust to varying plowing conditions. They can be equipped with any standard type of bottom—all McCormick-Deering tractor plow bottoms being interchangeable on the Little Genius beams.

Equipped with 2 14-inch bottom plows (general purpose), combination coulter and jointer.  
Weight, 844 lbs. Price, \$120.00, 5% for cash.

## McCormick-Deering Little Wonder Tractor Plow No. 2

### For Small Tractors

The Little Wonder combines the features essential to good plowing under all average conditions with a refinement and simplification of design which provides ample strength with comparatively light weight. In fact, the Little Wonder is as light in weight as it is possible to build a good plow.

Equipped with 2 14-inch bottom plows (general purpose), combination coulter and jointer.  
Weight, 582 lbs. Price, \$95.00, 5% for cash.

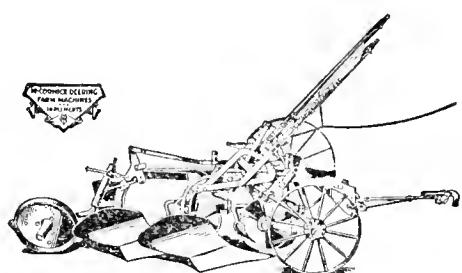


Fig. 10

## McCormick-Deering Tractor Disk Harrow

This disk harrow is a genuine tractor tool. It is not intended to be used with horses but is built for tractor use only. The gangs are controlled entirely by the action of the tractor. To secure his angle the driver puts the draft lock in the notch giving the desired pitch, then when he moves forward the gangs assume the angle without further attention. To straighten the gangs the tractor is backed and the draft lock returned to its original position. Then as the tractor again moves ahead the gangs straighten themselves. It is built in 5, 6, 7, 8, 9 and 10 ft. sizes to fit any tractor. Prices on application. Weight, 6 ft. size, 16 in. disks, 934 lbs.

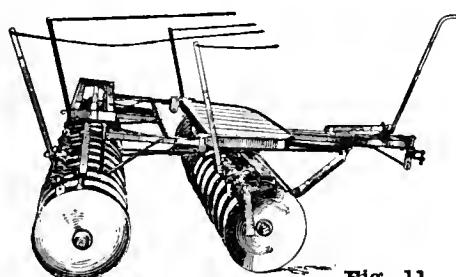


Fig. 11

## McCormick-Deering Fertilizer Drill

By the use of a Grain Drill you decrease the quantity of seeds used and increase the yield. Every seed is properly planted, which is just as necessary as with any hoed crop. The increased yield, even if it is only a few bushels per acre, will well pay for the interest on the drill. Ask for complete catalogue showing McCormick-Deering drills. Space does not permit of our describing them in detail.  
No. 11-7—Single Disc Fertilizer Drill with pole, 1,078 lbs.  
Grass Seed Attachment.

Ask for price.

All prices in this catalogue are subject to change without notice.



Fig. 12

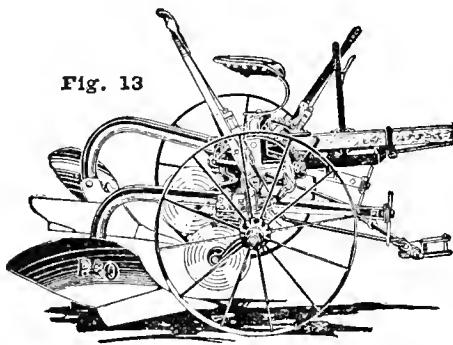


Fig. 13

### McCormick-Deering Two-Way Success Sulky Plow No. 1

It leaves no ditches. The Two-Way turns all the furrows in the same direction—it leaves no dead furrows. It is, therefore, the ideal plow for irrigated fields and for sloping or hilly land where dead furrows mean undesirable ditches.

There is no laying out lands—you simply start at one corner of a field and plow back and forth, using the right hand bottom going one way, the left hand bottom coming back. It is very simple—the horses even do most of the work of raising the bottoms.

Quick-detachable shares, 13 in. rolling coulters. 2 horse steel evener. **Price \$110.00**  
5% Discount for Cash

### The Wiard Reversible or Two-Way, Power Lift Sulky Plow (Lift and Trip Operated by Hand or Foot), with Shifting Pole, Automatic Shifting Clevis and Adjustable Tilting Seat and Steel Wheels.

**No. 400. A Two- or Three-Horse—Weight 550 lbs.**

Cut 5 to 8 in. deep, 11 to 15 in. wide with chilled or steel moldboards.

This Sulky is adapted to all soils, leaving no ridges or dead furrows and does perfect work on either level land or side hill.

It is very simple, easy to handle, and is lightly constructed, the material used being mostly steel and malleable iron, making it very strong and durable.

Price, with chilled moldboards and point.....\$106.00  
Add for steel moldboards.....4.00

5% Discount for Cash

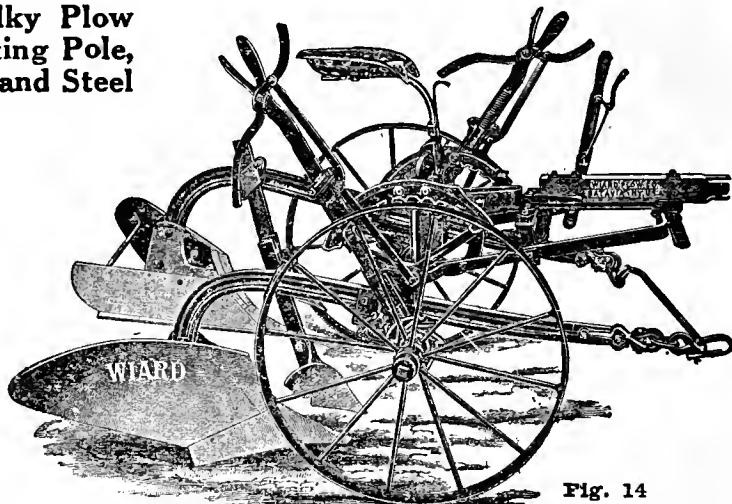


Fig. 14

### Clark "Cutaway" Double Action Tractor Harrows

The Clark "Cutaway" line of Double Action Tractor Disc Harrows is the most complete on the market. There are rigid frame and flexible frame types of harrows, made in many sizes, with 16-inch or 18-inch discs. The harrow illustrated here is the late model Flexible Tractor Harrow. Prices and descriptive folders of other sizes on request. Cutout or solid discs same price.

**A-6 24 16-inch Discs, 6½ ft. cut, 790 lbs. Rigid type.....\$108.00**  
**A-6 24 16-inch Discs, 6½ ft. cut, 765 lbs. Flexible type.....111.00**

5% Discount for Cash.

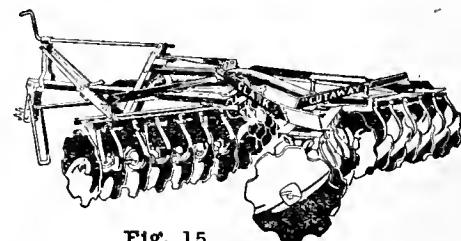


Fig. 15

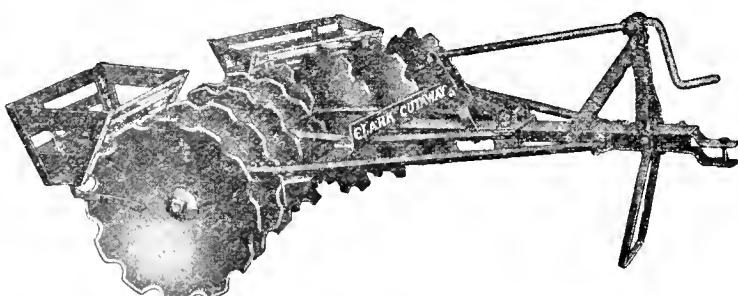


Fig. 16

### Clark "Cutaway" Wonder Disker

A remarkably efficient implement for subduing brush land, bog land, cleared woodland, drained swamps, etc. Ideal for thorough and economical orchard cultivation, including sod breaking and disking in cover crops. Flexible frame, spring-steel drawarms reversible gangs. The heavy 24-inch disks are made of a special grade of steel with the edges forged sharp. The disks are guaranteed against breaking and cracking for three years. This improved machine replaces the well-known CLARK "CUTAWAY" Bush and Bog Plow and Harrow, which has been popular for more than thirty years.

Price, 8 24-in. disks, 6-ft. cut, adjustable tractor hitch, reversing irons, weight carriers.....\$116.70

5% Discount for Cash

### McCormick-Deering Chattanooga Hillside Plows

All sizes are equipped with chilled shares, one extra share shipped with each plow. Furnished in four sizes as follows:

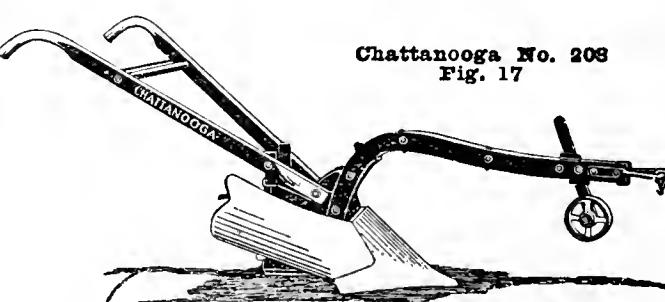
No.	Description	Depth	Width	Weight	Price
207	1-horse, light	4"	8" with wheel	65 lbs.	\$13.25
208	1-horse, regular	5"	9" with wheel	75 lbs.	15.00
209	2-horse, regular	6"	12" with wheel and jointer	130 lbs.	25.00
210	2-horse, heavy	7"	14" with wheel and jointer	157 lbs.	31.00

5% Discount for Cash

Nos. 207, 208 and 209 come regularly equipped with solid steel moldboards. A hard steel board can be furnished on special orders.

The beam is made of two flat steel bars, trussed together in such a way as to form a beam that is both light and strong. The beam and handles are long, giving good leverage, both while plowing and when reversing the bottom.

Chattanooga No. 208  
Fig. 17



## No. 130X with New Automatic Adjustable Colter and Adjustable Clevis

No.	Size	Capacity	Wt. with Clevis	Price
130X	Light two-horse	5 to 8 in. deep, 10 to 13 in. wide	104 lbs.	\$27.50
<b>Specifications and Description</b>				
Beam—White oak, selected stock				
Moldboard—Cast iron; add for steel moldboard \$2.00.				
Shoe—Cast iron, a good length, chilled on bottom.				
Coulter—Adjustable steel blade, automatically shifted when moldboard is reversed.				
Wheel and Standard—Rigid, with malleable standard, wheel runs under beam.				
Clevis—Plain or adjustable, operated by lever between handles.				
Points—Plain or stony, cast iron steel-edged marsh or forged steel.				
Finish—Iron work, except polished surfaces, painted green, striped and varnished. Woodwork natural finish, two coats oil and varnish.				
No. 140 Medium Two-Horse Plow				
Weight, 135 lbs.....				
For steel board add \$2.00				
5% Discount for Cash				

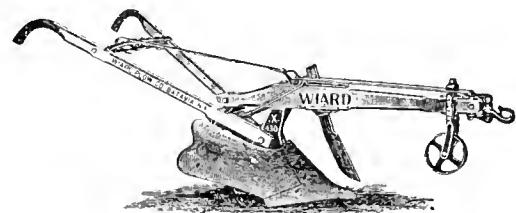


Fig. 18



Fig. 19

## Two-Horse, Steel Beam Wiard

No.	Size	Capacity	Wt. with Clevis
43	Two-horse	4 to 7 in. deep, 9 to 13 in. wide	120 lbs.
44	Two-three-horse	5 to 8 in. deep, 11 to 15 in. wide	130 lbs.
Cast iron points for this series of Plows are made in the following styles:			
Plain, pitch, stony, slip nose and cutter. Also for the Nos. 43 and 44 an extra wide (13-inch) plain cast point is made. Forged steel points are furnished for all sizes and a Special Alfalfa Point.			
No. 43. With chilled moldboard Jointer and Coulter and Wheel.....			
Same with steel board.....			
No. 44. With chilled board wheel and Coulter or Jointer.....			
Same with steel board.....			
5% Discount for Cash			

## No. 67 Wiard Pavement or Rooter Plow

No.	Size	Wt. with Clevis
67	Four- or six-horse	250 lbs.
This Plow has great strength and is adapted to contractors' work and for tearing up cobblestones or macadam pavements.		
The Beam is made of cast Crucible Steel. The tendency to wear off the lower front end of the Beam in this class of Plows is entirely overcome by a separate shoe casting attached to the beam at this point, which can be replaced at slight expense when worn; this often saves the cost of the beam. In ordering always specify kind of Beam wanted.		
The point is 32 inches in length and one inch thick, and is made from the best quality of forged steel. It is wedge shaped and pointed at both ends. The Point can be extended when it becomes worn by removing the bolts and adjusting towards the front. It can also be reversed end for end, making a point that has strength, durability and great wearing qualities. It can be forged or drawn by any blacksmith.		
The Handles are made of steel, strongly braced, being a new departure, as heretofore the handles for this style of Plow have been made of wood and were easily broken.		
The Construction of this Plow throughout is iron and steel, and it is made to stand the wear and tear to which this style of Plow is subjected. This Plow, together with either of our Contractors' or Road Plows, makes a pair that is unsurpassed for this class of work. Price, \$60.50. Discount for cash, 5%.		

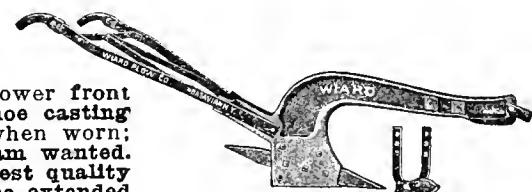


Fig. 20

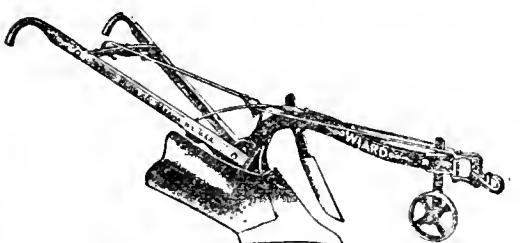


Fig. 21

## No. 120 Medium Two-Horse Wiard Plow

No.	Size	Capacity	Wt. with Clevis	Price
120	Light two-horse	5 to 8 in. deep, 10 to 13 in. wide	118 lbs.	\$32.50
126	Heavy two-horse	5 to 8 in. deep, 12 to 15 in. wide	139 lbs.	33.50
127	One-horse	4 to 7 in. deep, 8 to 12 in. wide	100 lbs.	25.50

## Specifications and Description

Beam—Forged steel, two pieces.  
 Moldboard—Cast iron or soft-center steel, highly polished. Add for steel moldboard, \$2.00.  
 Shoe—Cast iron, chilled on bottom.  
 Jointer—Adjustable, automatically shifted when moldboard is reversed.  
 Coulter—Adjustable, automatically shifted when moldboard is reversed.  
 Wheel and Standard—Wheel can be run under beam or at side.  
 Clevis—Plain or adjustable, operated by lever between handles.  
 Points—Plain and stony, cast iron.  
 Finish—Ironwork painted green, striped and varnished.

## No. 21 Wiard Plow

No.	Size	Capacity	Wt. with Clevis
21	One-horse	4 to 7 in. deep, 6 to 10 in. wide	77 lbs.
By an ingenious but simple clevis attached to these Plows they can be used with horse walking in the furrow, a great convenience for garden and vineyard work.			
The No. 21 is made with cast-iron moldboard.....			
With steel moldboard.....			
5% Discount for Cash			

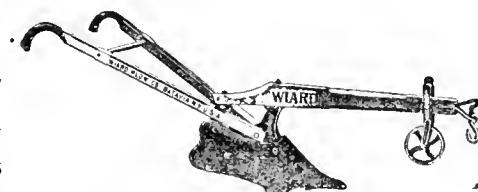


Fig. 22

## McCormick-Deering No. 3 Potato Digger

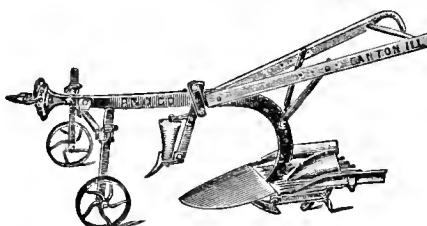


Fig. 23

A good, practical potato digger at a reasonable price. By the use of two front wheels, the crushing and mutilating of potatoes is avoided. The vines will not clog as they frequently do with a digger with only one wheel as the wheels run on solid ground between the rows

keeping the digger on an even course and working at a uniform depth. The wheels are adjustable. The grate at the rear is hinged at the front and is given an up and down motion by a 5-tooth wheel at the rear. This sifts out the dirt as the potatoes pass over the rod. Weight, 153 lbs.

Price, \$26.00. 5% discount for cash.

## Two-Horse Steel Land Roller

Made very strong and durable. 8 ft. wide, 3 sections 24 in. in diameter. Has patented closed end which excludes all trash, rubbish, etc. Runs on hardwood oiled bearings, which can be easily renewed in case of wear. An up-to-date roller in every respect.

Price, \$45.00. Less 5% for cash.

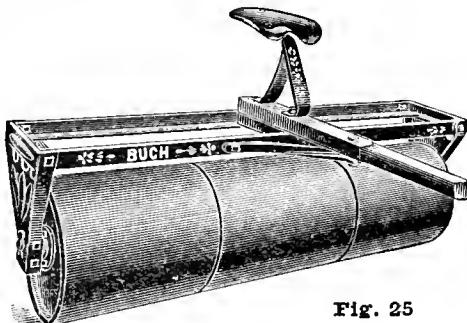


Fig. 25

One-horse roller, two-section. Price, \$43.50.

## The Hitchcock Potato Digger and Shovel Plow Combined

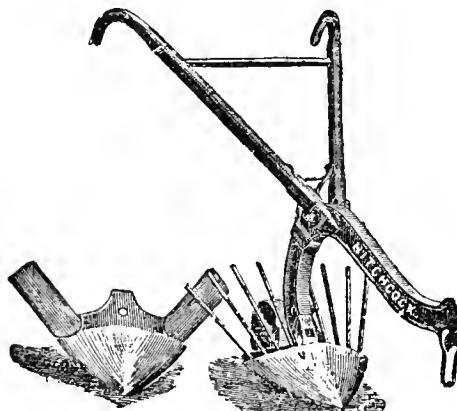


Fig. 27

This Potato Digger will not only dig potatoes, but can also be used as a hillier by attaching the special hillier wings. Also can be used for furrowing out. You get best results by using two horses, allowing one to walk on each side of the row.

Price, as Digger, \$12.50.

Price, complete with wings, \$16.50.

## No. H, One-Horse "Acme" Harrow

This style has 8 coulters, crushing shoes and seat; works 4 ft. 4 in. wide; weight, 90 lbs.

Price, \$23.50. 5% discount for cash.

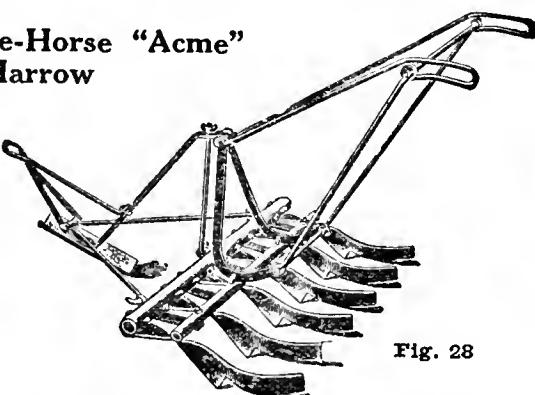
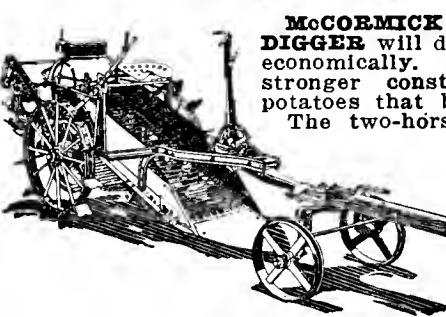


Fig. 28

## McCormick-Deering Potato Digger



McCORMICK-DEERING POTATO DIGGER will dig your crop quickly and economically. Less power, less labor, stronger construction, digging better potatoes that bring better prices.

The two-horse 6-ft. size has a 5-ft. elevator 22 in. wide. This machine can be furnished with rod-link made of high-carbon spring steel or with the riddle or grade bar elevator.

We also have this in a 7-foot digger for four horses, elevator being 6 ft. x 22 in. wide.

These diggers get all the potatoes, whole and unbruised. The weight of the front end of the digger is carried on truck, relieving horses of all neck weight. The main wheels are 30-in. on the 6-ft. digger and 36 in. on the 7-ft. without the lugs.

Light draft is made possible by a close-up hitch. Dust caps keep the dust away from the working parts. Drive wheels are high and the shovel is correctly designed.

Regular equipment consists of vine turners, including kickers, shaker, two extra rollers, sprockets, wheel type truck, main wheel lugs, pole, neckyoke and hitch.

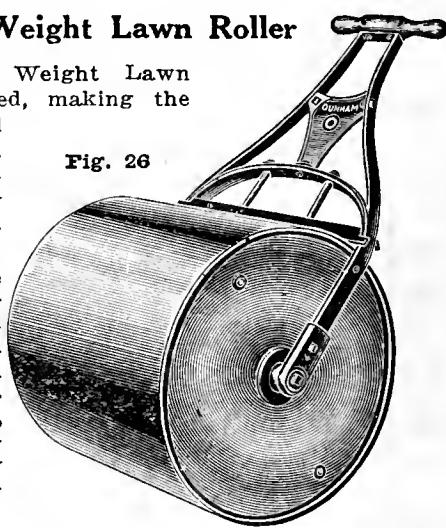
Price, No. 5, with rod Mnk elevator, 6 ft., \$140.00. 5% discount for cash.

Send for special circular.

## Dunham Water Weight Lawn Roller

The Dunham Water Weight Lawn Roller is electric welded, making the water section one solid drum; no rivets are used. It cannot leak. The roller surface is perfectly smooth and cannot injure the lawn.

A good lawn cannot be obtained unless a roller is used. Continued freezing and thawing separates the turf from subsoil, which leaves an air space for grass roots to dry out. A good rolling is absolutely necessary to put the lawn in condition again.



No.	Diam., In.	Length, In.	Sections	Weight Empty	Filled with Water	Price Each
2	14	24	1	60 lbs.	175 lbs.	\$11.50
4	18	24	1	82 lbs.	265 lbs.	13.70
5	18	24	1	85 lbs.	265 lbs.	17.10
7	24	24	1	110 lbs.	420 lbs.	19.70
9	24	32	1	130 lbs.	565 lbs.	22.20

## The Acme Pulverizing Harrow

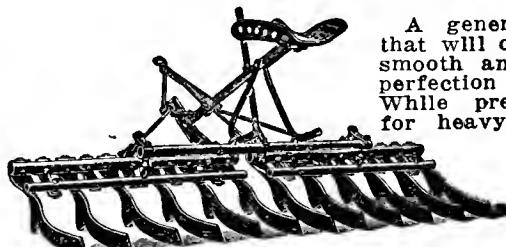


Fig. 29

A general purpose harrow that will crush, cut, lift, turn, smooth and level the soil to perfection all in one operation. While pre-eminently adapted for heavy, stubborn land, it can be adjusted, by means of levers and runners, to do perfect work on the lightest soil. It cuts the entire surface without disturbing sods or

trash that has been turned under by the plow. It prepares a perfect seed bed, and also covers seed in the best manner. The draft is reduced to a minimum. Being made entirely of cast steel and wrought iron, it is practically indestructible.

No. 23. Regular size, 1 and 2-horse, made in two sections. Price, \$30.00. 5% discount for cash.

### McCormick-Deering Manure Spreader

#### With Saw-Tooth Non-Wrapping Beater



Fig. 30

Every convenience that could possibly be built into a mechanical spreading unit has been embodied in the construction of the new McCormick-Deering. With a carrying capacity of from 60 to 70 bushels the box is built low which permits easy loading.

The levers on both sides of the spreader are within convenient reach of the operator. The left hand lever controls the spreading mechanism and the right hand lever controls the operation of the conveyor at six different speeds. The seat swings back while loading and the narrow width of the spreader allows ready passage through the average barn doors or field gates.

There are eight roller bearings, two on the axle, two on each of the upper and lower beaters, and two on the widespread shaft. This feature provides light-running and reduces wear to a minimum.

The box is wider at the rear than at the front thus preventing the load from wedging against the sides. The upper saw-tooth, non-wrapping beater levels the load as the manure is fed into the lower spike-tooth beater where it is torn into bits. The wide-spread spiral shreds and spreads the manure as it should be done.

Six conveyor speeds permit placing more or less manure on certain spots as desired. The driver can instantly regulate the quantity of flow while the spreader is in operation. The short wheelbase, tracking of the front and rear wheels, and the auto-steer front truck makes the McCormick-Deering a strong, durable, light-draft spreader. Weight 1500 lbs.

Get our prices before purchasing.

### McCormick-Deering Knife Grinder

It is poor economy to operate a mower with a dull knife, for it racks the machine and worries the horses. The Deering grinder is so arranged that the emery wheel sharpens two mower sections at once and preserves the correct bevel. For grinding out nicks the degree of pressure enables the operator to control the action of the wheel and the pressure. The knife is firmly held in place by clamps and may be easily removed from section to section of the wheel; grinds any make of knife. Price, \$5.75.

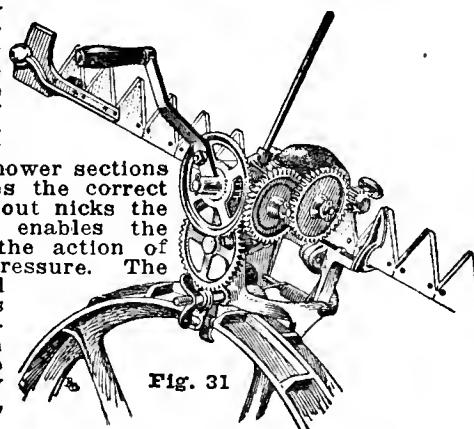


Fig. 31

### McCormick-Deering Disk Harrow

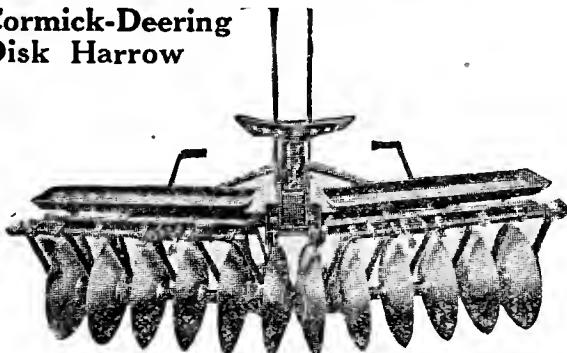


Fig. 32

Has 12 16-inch disks and weight boxes. The main frame of this harrow is constructed in such a manner that the heavy bent iron bars which fasten the main frame to the bearings are hinged both to the main frame and in the bearings. This allows the rigid frame to be used and gives an opportunity for the disk gangs to work close together. The cross beam of the frame is made of angle steel and the bars running from the ends of the cross beam to the tongue are heavy steel. The bearings are arranged so they can be oiled easily and are fitted with metal bushings which can be replaced when they become worn. This makes the harrow very strong and durable. Weight, 387 lbs. Price includes weight boxes, scrapers and two-horse hitch. Ask for price.

### Clark One-Horse Cutaway Harrow with Shifting Levers

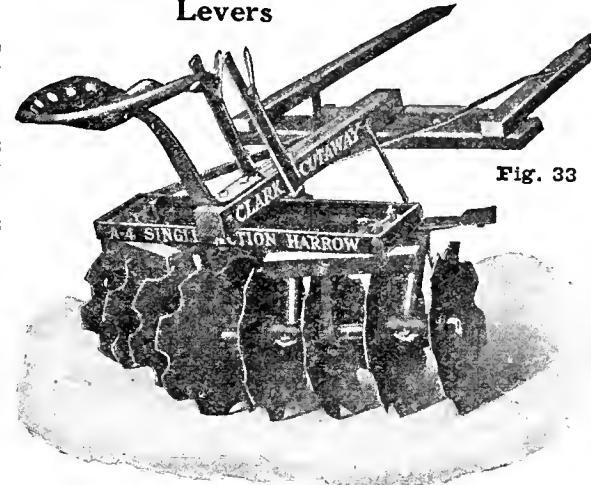


Fig. 33

A-4 Single Acting Harrow, 8 16-in. discs, 4 ft. cut, fitted with shafts for one horse and two shifting levers. This harrow is an improvement over the O-5, which does not have the levers and also has 16-inch instead of 14-inch discs. We think it is well worth the difference in price. Wt., 245 lbs. Price, \$43.00

5% Discount for Cash.

### Clark's Utility One-Horse Cutaway Harrow

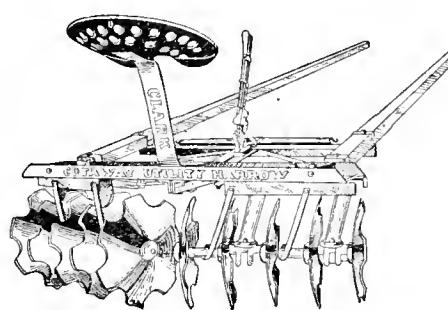


Fig. 34

This harrow is especially adapted to the needs of small farmers and fruit growers. It has ten 14-inch cut-out steel discs. A six Disc Harrow is not practical on account of the width. This Harrow cuts 4 feet and overcomes that difficulty.

No. of Discs Diam. of Discs Width of Cut  
10 14 4 ft.

Shipping  
Hitch Weight  
1-H 200 Price  
\$36.00

5% Discount for Cash.

### Clark Reversible Single Action Cutaway Harrow

All Cutaway Single Action Harrows are reversible. If you will observe the illustration you will see that the "dish" of the discs is out, and consequently the soil is moved outwardly. To reverse this harrow, you simply disconnect the lever links from the gang frames and swing the gangs around on the king bolts until what were formerly the outer discs become the inner discs, and reconnect the links. In this latter position the discs will throw the soil inwardly.

Like those on all other Cutaway implements, the discs on this harrow are the famous Clark cutlery steel discs forged sharp. This feature partly accounts for the remarkably long service always given by Cutaway disc implements.

No. of Machine	No. of Discs	No. of Discs	Width of Cut	Shipping Hitch	Weight	Price
A-6	12	16	6 ft.	2-H	315	\$52.00

5% Discount for Cash

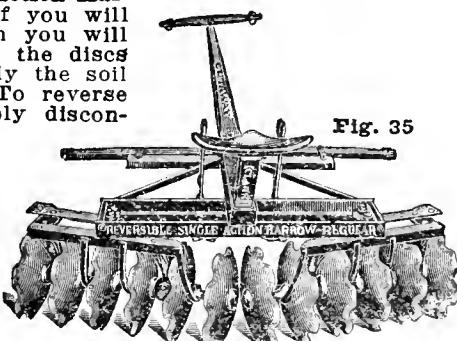
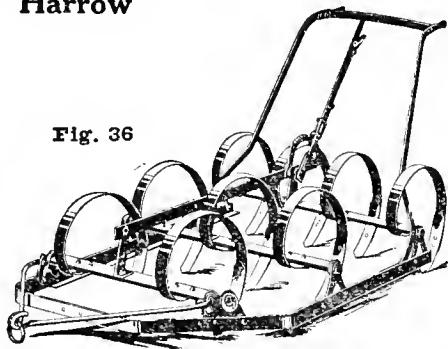


Fig. 35

### McCormick-Deering One-Horse Spring Tooth Harrow

This harrow is particularly adapted for small fields, orchards and nurseries where a large two-horse harrow cannot be used. The main frame is of angle steel bent up at the front so that it passes over obstructions easily. The tooth beams are placed high and made of pipe of sufficient dimensions to make them both light and strong. The teeth are placed on the tooth bars so that trailing is impossible. Each tooth does its full share of the work. Weight, 130 lbs. Price \$17.00. 5% cash.

Fig. 36



### Prout's Two-Horse Hoe

Each standard, as shown in the cut, has two hoes attached, and, in working, one set of hoes work on one side of the hill and the other on the opposite side, hoeing a row at a time. The hoe operates the same as a hand hoe, moving fresh earth to the plant and crowding the old dry earth away from the plant.

The hoes, being made tapering, permit of cutting close up to the plant without injury to corn roots which run close to the surface. Price, with wheels, weight 120 lbs., \$35.00; price, no wheels, weight 110 lbs., \$30.25. 5% discount for cash.

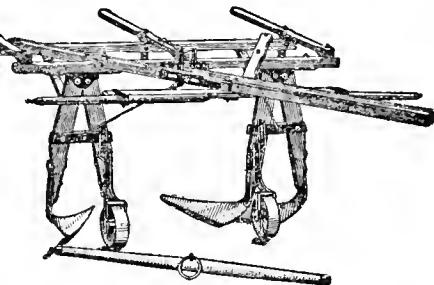


Fig. 37

### Dixie Wonder Cultivator

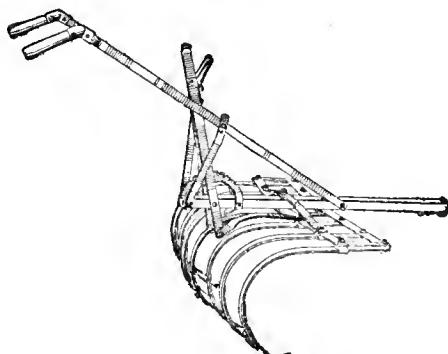


Fig. 38

5% Discount for Cash.

Dixie Wonder can be adjusted to throw the soil to the rows or away from them. This is done by pulling the outside teeth forward or backward as desired. Dixie Wonder is an excellent soil mulcher and weed killer. The teeth are mounted on flat steel bars, pivoted at the beam. Teeth are adjusted by means of levers or by a movable hook, according to the style ordered. With wheel, \$11.00.

### Meeker Smoothing Harrow

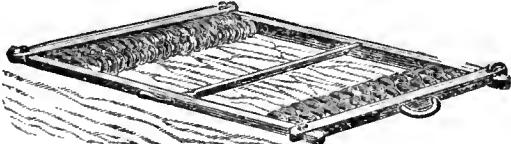


Fig. 39

This consists of a frame with four sets of rollers and 58 steel discs, which work between each other. The discs grind all lumps very fine and mash small stones below the surface better than any field roller.

4 ft. 6 in. x 4 ft. with 8 in. discs.....	175 lbs.	\$33.50
6 ft. 8 in. x 6 ft. with 8 in. discs.....	200 lbs.	37.50
8 ft. x 6 ft. with 8 in. discs.....	300 lbs.	47.50
6 ft. 8 in. x 6 ft. with 10 in. discs.....	250 lbs.	45.00
8 ft. x 6 ft. with 10 in. discs.....	350 lbs.	55.00

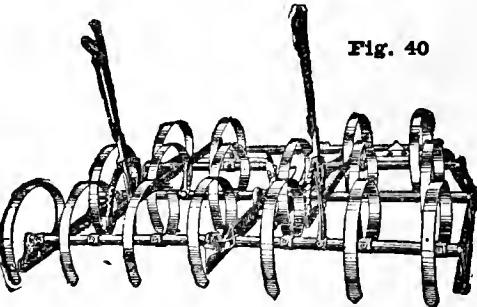
5% Discount for Cash.

### McCormick-Deering Two-Horse Harrow

There is a harrow made for every kind of work, and the spring tooth has its place and should be on every farm. It will take hold and pulverize where other makes have failed. The action of the teeth breaks all lumps and leaves a fine seed bed.

15-tooth ..... \$25.00  
17-tooth ..... 26.75

Fig. 40



5% Discount for Cash.

### The Original Perry Spring Harrow

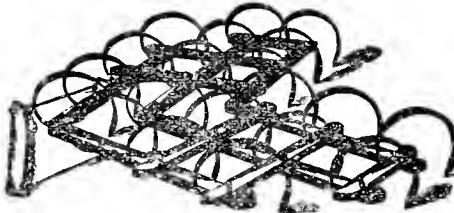


Fig. 41

For durability it is equal to any harrow made. The wood frame is lined with carbon steel. Bolt heads are protected. The teeth cannot get loose. Used among rocks and stumps which would soon break any other harrow to pieces. Price, 16 teeth, \$19.50. 5% Discount for Cash.

### McCormick-Deering Spike-Tooth Smoothing Harrow

Designed as a leveling harrow and for covering all kinds of grain and grass seed; also largely used for cultivating corn and potatoes just after they come up. The teeth are adjusted by means of a lever and can also be thrown up from the ground

and harrow transported to and from the field on the shoes at the end. Each tooth is held in place by two bolts, while nearly all other harrows use but one. Teeth can be moved down as they wear. The entire harrow is made of steel. Price, 60 teeth, \$23.50. Weight, 226 lbs. 5% discount for cash.

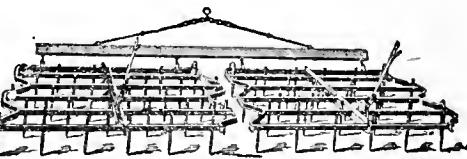


Fig. 42

### The Bolens Power Hoe

BOLENS Power Hoe is different from any other garden tractor that you have seen or heard about.

It has a patented arched axle to straddle the row and pass over plants 14 to 20 inches high without damage.

It has a simple and wonderful tool control to cultivate closely in straight or crooked rows. You simply guide the tractor and the tools follow the row.

It has a differential drive to make turning easy and is equally at home in small or large gardens. You can start or stop instantly without stopping the motor.

It has gauge wheels to regulate the depth of cultivation. All you do is guide the tractor and regulate the speed.

It has offset handles so you walk between the rows in a natural position.

The wheels have deep traction lugs to give plenty of pull from the 1 1/2 horse power motor although the tractor weighs but 200 pounds. Ask for price.

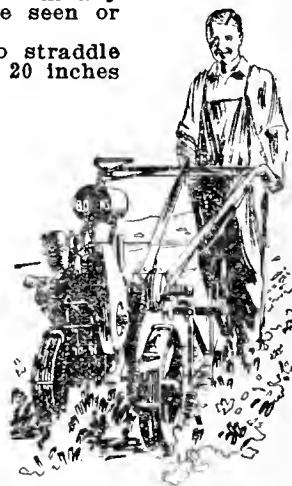


Fig. 43

## McCormick-Deering New 4 Cultivator No. 251

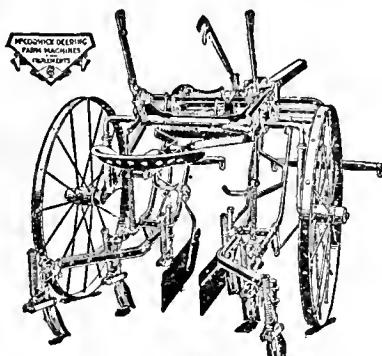


Fig. 44

This cultivator runs on ball bearings, gangs are always parallel; cultivating depth is controlled by levers, draft direct to the gangs. It is equipped with 8 double pointed shovels and trip slotted shanks. This style is especially adapted for the Eastern States. Can be adjusted from deep to shallow work, wide and narrow cultivation, without leaving the seat. Equally good on Corn, Potatoes, Peas, Beans, etc. A boy who can handle a team can do clean cultivating with this implement. Weight, 508 lbs. Price, \$69.00.

Disc Hillers complete, extra, per pair, \$4.75. 5% Discount for Cash.

## McCormick-Deering 5-Tooth One-Horse Cultivator

This cultivator has 5 steel teeth, expanding width from 12 to 25 inches. Frame is high to clear trash and is good length, which enables it to run steady. Each standard has 3 holes for adjusting. Equipped with adjustable wheels and expanding lever. Weight, 79 lbs. Price, \$10.50.

5% Discount for Cash



Fig. 45

## Planet Jr. No. 220 Fertilizer Distributor

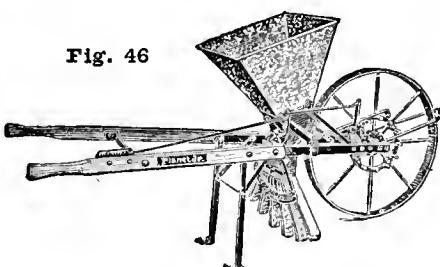


Fig. 46

Capacity one bushel. Will distribute 100 to 2000 pounds of commercial fertilizer to the acre. Six adjustable spouts spreaded from four to thirty inches. Equipment includes plates for closing up five spouts or three spouts on either

left or right side. Hopper placed well forward over wheel, making lighter load and easier pushing. Feed can be opened and closed without stopping. Price, \$27.00.

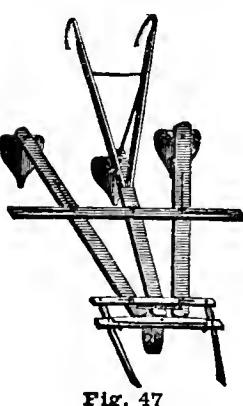


Fig. 47

## The Goslee Improved Marker

## Adjustable Tooth, Spreads 2 to 4 ft.

This machine is designed to mark out rows of any width, and in doing so it makes a furrow suitable for planting. Price, \$19.75.

5% Discount for Cash

## Spring Tooth Cultivator

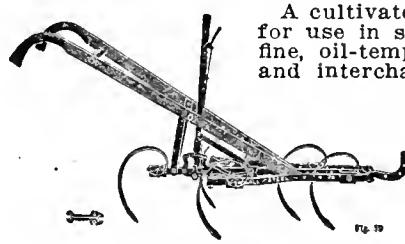


Fig. 48

A cultivator that is especially adapted for use in stony ground. The teeth are fine, oil-tempered springs, and are alike and interchangeable; they are also adjustable for angle and depth. Has expanding lever, five spring teeth and wheel. Price, \$10.00.

7 Tooth Spring Cultivator, \$11.25.

5% Discount for Cash

## Spike Tooth Cultivator

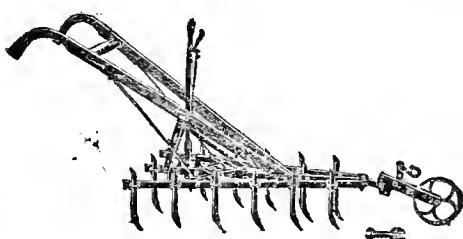


Fig. 49

This cultivator and harrow is particularly designed for cultivating between small fruits. Especially adapted to pulverize the soil and leave it smooth and level, thus conserving moisture.

Price, \$9.75

5% Discount for Cash

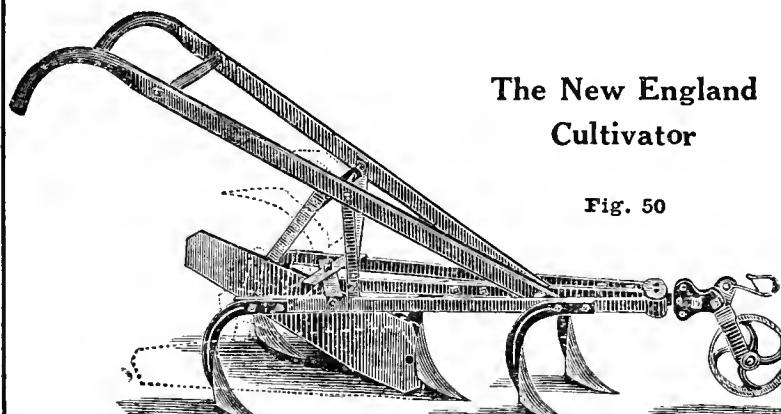


Fig. 50

This is New England's own. It is heavier and more rigid than the ordinary cultivator. Equipped with the horse hoe and hill attachment, it has many uses and saves buying two or three machines.

Complete with expanding lever.

Price \$17.50

5% Discount for Cash

## McCormick-Deering Fertilizer Distributor

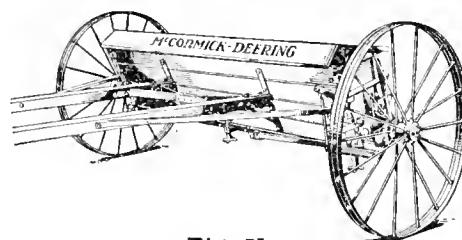


Fig. 51

Distributes evenly all kinds of commercial fertilizers in large or small quantities. Lime, 10 to 2,350 pounds per acre. Instantly adjustable for different fertilizers and quantities without stopping machine. The force feed insures positive distribution even when

fertilizer is damp. It is undoubtedly the lightest draft distributor on the market, light in weight, yet strongly built. The bottoms are lead-coated to resist corrosive action of fertilizer. One man can easily remove all distributing parts, clean and reassemble them in five to ten minutes' time. This machine can also be used as a broadcast seeder for sowing small grains, such as wheat, oats, barley, etc.

7 foot

Weight 655 lbs.

Price \$85.00

9 foot

Weight 729 lbs.

Price 95.00

5% Discount for Cash

### McCormick-Deering Potato Planter

This Machine plants a greater range of seed, both as to size and shape, than ever before and handles it with the least possible friction or wear. In lieu of the cumbersome wooden structure, a galvanized hopper has been substituted, which overcomes all tendency to clog or bridge with either the whole or cut seed. Both the feed and covered tension are regulated from the seat. List price, with fertilizer and attachments and tongue truck wheel, \$145.00. 5% cash. Weight, 950 lbs.

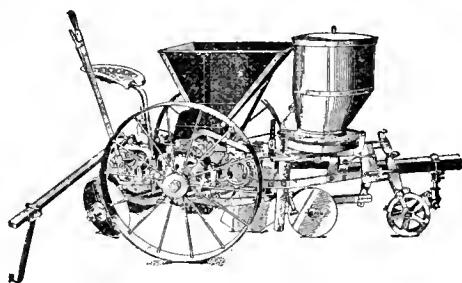


Fig. 52

### Eclipse Corn Planter and Fertilizer Distributor

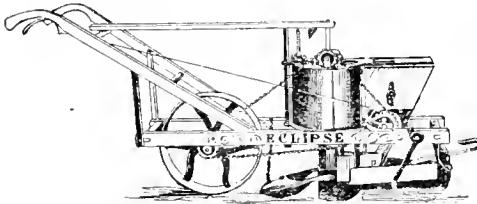


Fig. 53

Plants field or ensilage corn, beans, peas or beet seeds in hills, drills or checks; it will drop 6, 12, 24 or 36 inches apart. By scattering pumpkin seeds in with the fertilizer in filling the hopper will place seeds in hills when planting corn. It accurately distributes

from 50 to 450 lbs., as desired, of commercial fertilizer, wet or dry, in the rows of hills, first drawing moist earth in the seed before the fertilizer is dropped each side of the seed, and hill is covered to a uniform depth. Price, complete, \$45.00.

5% Discount for Cash

### Nonpareil Fertilizer and Lime Sower



Fig. 54

Nonpareil Sowers will distribute successfully every known kind of Agricultural Lime and Commercial Fertilizer used on the farm, providing it will pass through the screen into the hopper of the sower.

The sowers are equipped with an agitator which revolves in the bottom of the hopper, making all sowers positively force feed. This agitator is divided in the middle, it having a very strong and substantial bearing in the middle of the hopper and at both ends. This feature eliminates the use of the ratchet wheel and at the same time insures a very even distribution when turning corners.

A strong feed lever operates the feed plate. This lever passes through a quantity gauge on which there are 20 notches, each notch representing 250 pounds to the acre, so that different quantities from 100 to 5,000 pounds can be distributed to the acre by opening and closing the feed plate.

Each half of the agitator is driven direct from each wheel, so that there are no gears or sprockets to get rusty and break, thereby causing a continual annoyance to the user.

The Nonpareil Sowers are equipped with an all steel wheel with cast iron hub boxings. They are 32 inches in diameter, with 12  $\frac{1}{2}$ -inch steel staggered spokes. The tire is  $\frac{1}{4}$ -inch in thickness and  $3\frac{1}{2}$  inches wide.

Capacity, 15 bushels. Sowing swath, 8 feet. Weight, 435 pounds. Price, \$55.00.

5-foot Orchard, 1-Horse, \$55.00.

5% Discount for Cash

### "King of Cornfield"

#### Corn, Bean and Pea Planter and Fertilizer Distributor

Does perfect work, not only in planting corn in hills or drills, but does equally as good work planting peas, beans and all similar seeds, putting in the fertilizer as well, in any desired quantity, or the fertilizer may be stopped off altogether, if desired. Another great feature in this machine, corn and beans may be planted at the same time in the same row, the beans half way between the corn, or  $4\frac{1}{2}$  or 9 inches from the corn, as desired. The fertilizer may be put with the corn and left out of the beans, if desired to do so.



Fig. 55

Price, \$45.00. 5% Discount for Cash.

### McCormick-Deering Two-Row Corn Planter

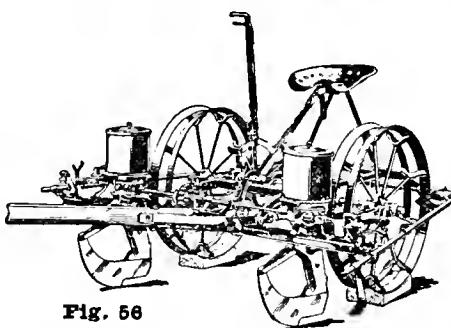


Fig. 56

Is especially adapted to our New England condition. Will plant in drills or hills and is adjustable for rows from 28 to 48 inches apart. The fertilizer cans are placed up out of the way of the driver and do not interfere with the working of the machine. Feed tubes lead from the fertilizer cans to the rear of the regular runners and deposit the corn hill. When the runners are raised the entire machine is thrown out of gear and marker raised.

Price quoted upon application.

### Farmer's Friend Fertilizer Sower

Attaches to any ordinary farm wagon and sows to perfection grass and grain seeds of all kinds and in any desired quantity per acre, 50 to 100 acres a day. It also distributes all dry commercial fertilizers; also ashes, land plaster, lime, etc. It has positive feed and an adjustment opening the holes from  $\frac{1}{4}$  to  $1\frac{1}{2}$  inches, which allows the sowing of seeds of any size; the flow can be shut off anywhere, either on one side or the other, or altogether, as required; it is instantly thrown in or out of gear. Price, complete to attach to wagon, \$16.00.

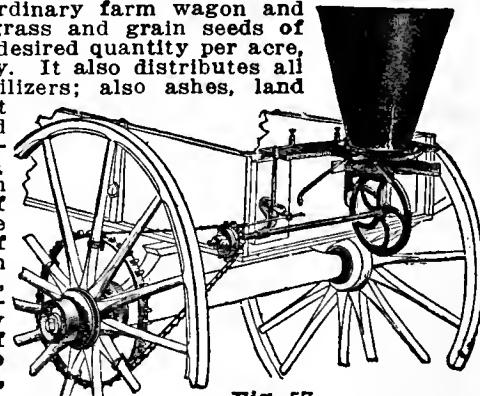
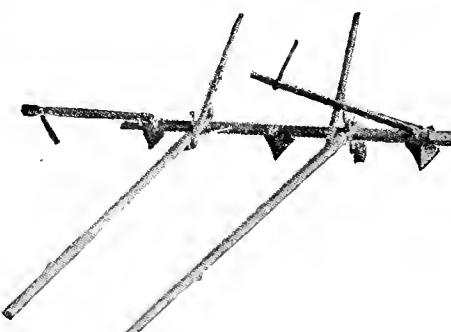


Fig. 57



### Eddy Field Marker

Marks 3 rows each trip. Light and easy to operate.

Price, \$16.50

Fig. 58

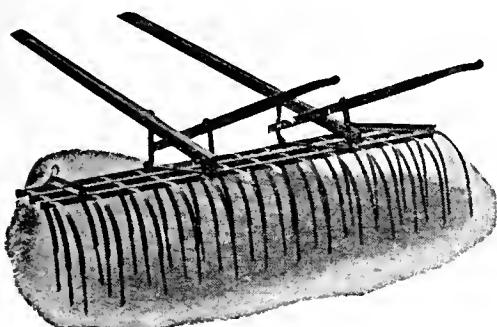


Fig. 59

### The Worcester Weeder—The Farmer's Best Friend

One of the indispensable articles on any farm where horse cultivated crops are grown, or where corn or grass seeds are sown. This weeder is made of high carbon angle iron steel, teeth attached to frame with bolts are held tight by a spring steel lock washer. This is the best implement made for preparing a seed bed and will pay for itself in one season. In cultivating corn it should be used just before the crop is up and immediately after. Destroys the weeds, but does not injure the crop. Price, \$16.00. 5% Discount for Cash

### Wood Beam Shovel Plow

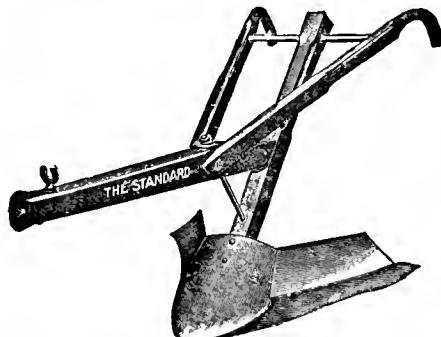


Fig. 60

Very handy for furrowing out rows and for hilling up. All parts strong and well braced and very durable.

Price, \$5.50

Steel Beam, \$5.75

5% Discount for Cash

### Automatic Hand Corn Planter

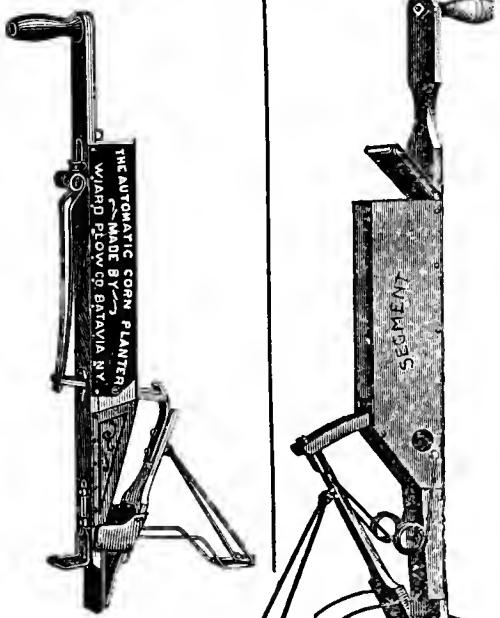


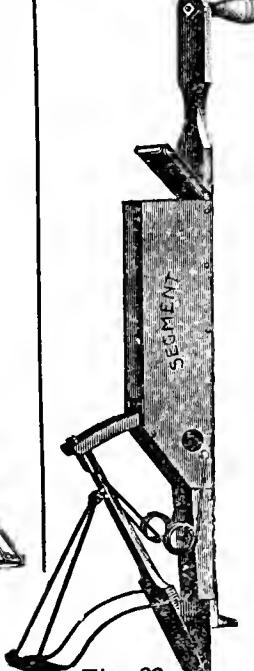
Fig. 61

Very handy for replanting and for small gardens.

Price, \$2.75

Mailing wt., 5 lbs.

### The Segment One-Hand Corn Planter



Lightest, most accurate, strongest and most up-to-date planter on the market. All parts are interchangeable.

Price, \$2.00

### The Worcester Horse Hoe and Hiller with Steel Wings



Fig. 63

The best implement made for furrowing, covering and hilling potatoes and similar crops. The steel covers or wings can be adjusted for making any style of hill desired in furrows of uniform width. All potato growers know the value of this tool and none of them attempt to get along without it. It is necessary to cover young plants completely when just out of the ground. The steel wings are made of best crucible spring steel. Price, \$13.00.

### The Worcester Horse Hoe and Furrower with Disc Wings

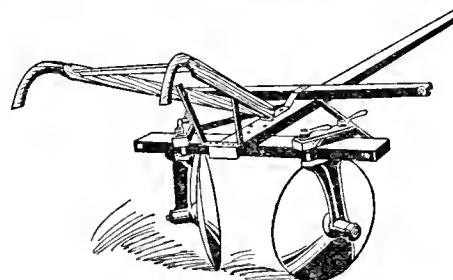


Fig. 64

This implement is the same as the Worcester Horse Hoe and Hiller, with exception of discs, which are used in place of steel hillers or covered wings. They are adjustable and by many are preferred to the steel hillers. All potato growers should have one of these two implements. These discs are made of best crucible steel and will last for a long time. Price, \$15.00.

### Cahoon's Improved Broadcast Seed Sower

Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 feet from each side of the operator); lighter seeds, of course, will not be thrown so far. Price, \$4.25. 8 lbs.

See Inside Front Cover of Catalogue for Parcel Post Rates.

### Fastest of All Grass Seeders

Thompson's Seeder

For Broadcast  
ing Grass, for  
sowing Red Top,  
Clover, Timothy  
and all Mixed  
Seeds. Light,  
strong and sim-  
ple.

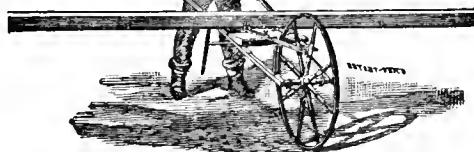


Fig. 65

Sows uniformly the whole length of the hopper. Weight, 45 lbs.

This is really the Greatest Grass Seeder made today. Not a toy, but a strong and durable implement specially designed and adapted to its use, 14 feet long. Over two hundred thousand are now in use on the farms of this country. It will sow easily 40 acres per day. So close to the ground that the wind can never blow the seed away.

Seeder No. 5. Sows Clover, Timothy, Hungarian Millet, Alfalfa, Chaffy Seeds, like Red Top, Orchard Grass and Kentucky Blue Grass. Price, \$15.00

No. 4. Grain Seeder Box, 10 feet, for sowing all kinds of grain. Fits No. 5 Seeder, and with both boxes all kinds of grain and grass seeds can be sown. Price, \$10.00.

No. 5 Seeder and No. 4 Grain Box. Price, \$25.00.

### The Cyclone Broadcast Seeder

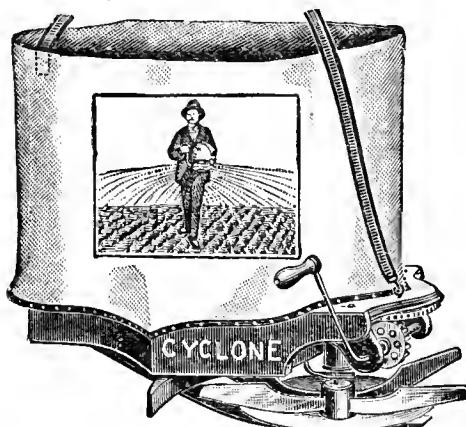


Fig. 66

Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Net price, \$2.15. Mailing weight, 2 lbs.

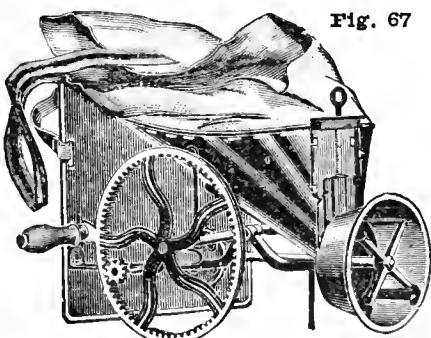


Fig. 67

## Planet Jr. Farm and Garden Tools

If you are a farmer, trucker, orchardist, or suburbanite with a kitchen garden, there is a Planet Jr. made for your special need. You can't afford to work without a Planet Jr. 72-page Planet Jr. catalog free. Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

### No. 4 Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe Cultivator and Plow

Price, complete, \$18.00  
As a Seeder only  
(No. 4D), \$14.25

This tool sows all garden seeds from the smallest up to peas and beans in hills, 4, 6, 8, 12 and 24 inches apart, or in drills. No time is lost. No seed is wasted. By removing the seeder parts and substituting the

tool frame, you have a first-class single wheel hoe. Makes the care of a garden a pleasure as well as very profitable. Can be used successfully by men, women or growing boys. Pays for itself in a season and will last for years.



Fig. 68

A splendid combination for the family garden, onion grower, or larger gardener. It is a perfect seeder, and combined double and single wheel hoe.

### No. 11 Planet Jr. Combined Double and Single Wheel Hoe, Cultivator, Plow and Rake

Price, with Attachment as in cut, \$13.75

14-inch Steel Wheels  
Steel Frame



Fig. 70

A single and double wheel hoe in one. Straddles crop till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world. Weight 37 lbs.

### No. 12 Planet Jr. Double Wheel Hoe, Cultivator and Plow

Price, \$10.75

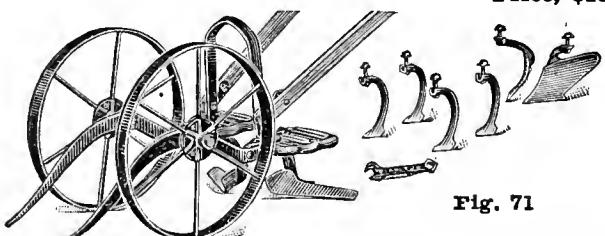


Fig. 71

This tool is identical with No. 11 Double Wheel Hoe, except that it has one pair plows, one pair hoes, four cultivator teeth and a pair of leaf lifters only. They are what gardeners use most, and the others can be added as wanted. Weight 32 lbs.

All prices in this catalogue are subject to change without notice.  
Add postage for your zone. See inside of front cover.

### No. 3 Hill and Drill Seeder

Price, \$17.50

Made for the market gardener or farmer who has a good size garden. Hopper holds three quarts—enough to plant about one-quarter acre in seed. Plants practically all vegetable seeds in straight, narrow, continuous rows or dropped in hills 4, 6, 8, 12 or 24 inches apart. Marks the next row at the same time. Seed control and shut-off located at top of handle, making easier operation.

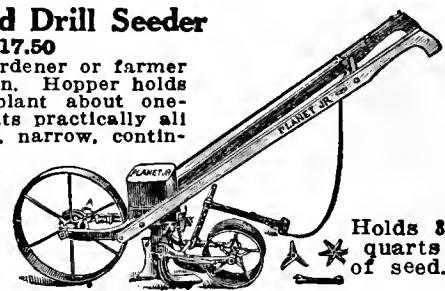


Fig. 72

### No. 5 Planet Jr. Hill and Drill Seeder

Price, \$20.00. 16½-inch steel driving wheel. Holds 5 quarts. No. 5 is undoubtedly the best seeder we make for market gardeners, onion set growers and other large planters. The style of construction is the same as in No. 3, the valuable mechanical features being common to both.

### No. 300 Drill Seeder

Price, \$20.00

A plate seeder originally designed for use on muck land, but built for service in light or heavy soil. Only three plates, each one with thirteen holes, making ample adjustment for various seeds. Plates can be shifted from one hole to another in a couple of seconds and plates changed in a minute or so. Hopper holds four quarts and is removable which makes easy filling and emptying.

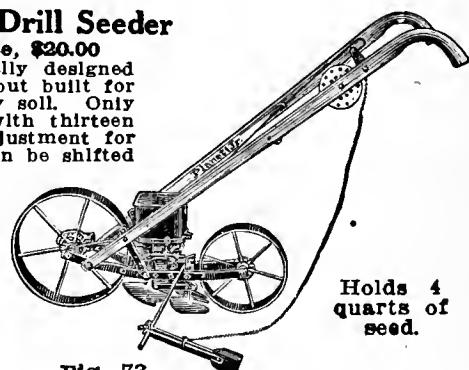


Fig. 73

### No. 16 Planet Jr. Single Wheel Hoe

Price, \$9.00

Weight 25 lbs.

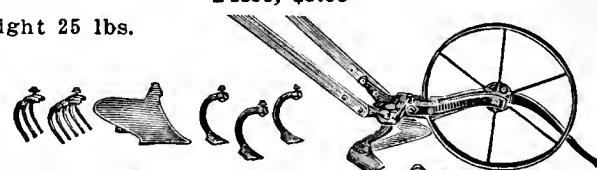


Fig. 74

The highest type of Single Wheel Hoe made. Light, but strong, and can be used by man, woman or boy. Will do all the cultivation in your garden in the easiest, quickest and best way.

### No. 17 Planet Jr. Single Wheel Hoe

Price, \$7.75

Weight 22 lbs.

Fig. 75

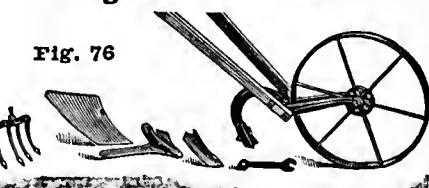


### No. 19 Planet Jr. Single Wheel Hoe

Price, \$5.00

This attractive implement is especially designed for the farmer's garden work, though it offers to every one with either field or garden a cheap and effective tool for wheel-hoe operations. Weight 18 lbs.

Fig. 76



# Planet Jr. Farm and Garden Tools

## No. 119 Planet Jr. Garden Plow and Cultivator

This member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared, the high wheel undoubtedly makes an easy running tool.

The wheel is 24 in. in diameter with a rim 1 1/2 in. wide, insuring easy running in the lightest soil.

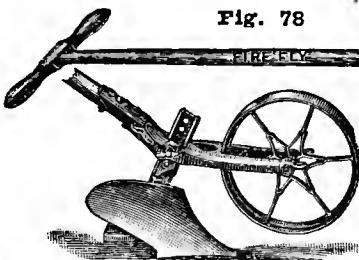
The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required. Price, \$4.50. Weight 19 lbs.



## Fire-Fly Garden Plow

Price, \$4.25

This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards. It will throw a furrow four to six inches wide and one to three inches deep. Weight 14 lbs.



## Star Cultivator, Weeder and Pulverizer



An improvement over the old style pulverizer. Light, easily handled. Very useful in flower gardens where plants are close. The star wheels break up the soil and the oscillating blade pulverizes it, and also cuts off the weeds directly beneath the surface. Used as a cultivator after a rain, this tool will not leave the ground in a lumpy condition. Price, \$3.25. Weight 6 lbs.



## Planet Jr. Lifetime Garden Tools

Planet Jr. Lifetime Tools have amazing strength. Guaranteed never to bend or break. The very best and hardest steel is used.

Each

Fig. 80 Garden Trowel...70 cts.  
Fig. 80A Bulb Trowel...70 cts.  
Fig. 80B Weeder .....65 cts.  
Mailing weight 2 lbs. each.

## Planet Jr. No. 2 Grass Edger

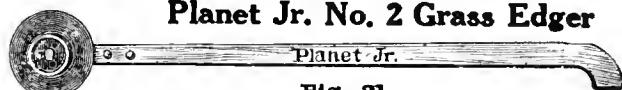


Fig. 81

Every one who uses a lawn mower should have a Planet Jr. No. 2 Grass Edger. The cutting blade is made of the best quality steel and well sharpened. The handle is strong, being made of good quality wood. In order to have attractive lawns, keep the edges well trimmed. There is no better tool for this purpose than the Planet Jr. No. 2 Edger. Price, \$1.60. Weight 4 lbs.

## No. 8 Planet Jr. Horse Hoe

Price with steel wheel, \$16.25

Stronger, better made and capable of a greater variety of work than any other cultivator made. Non-clogging steel wheel. Depth regulator and extra long frame make it run steady.



Fig. 82

The No. 7 Horse Hoe is the No. 8 without the depth regulator. It works the same as No. 8 in every way except that it lacks the steadiness and easy control of depth made possible by the depth regulator. Price with steel wheel, \$15.75.

## No. 9 Planet Jr. Horse Hoe

Price with steel wheel, \$14.25

Is identical with No. 8 except that it has no depth regulator, and has a plain wheel instead of lever wheel.

## Planet Jr. No. 82 Horse Hoe and Cultivator

Price, \$15.75

A very popular machine because of the large amount and great variety of work that can be done with it. Finishes rows up to 42 inches apart and works the middle complete at one passage. Zig-zag frame is particularly strong and the seven teeth insure fine and thorough cultivation. In addition to regular equipment, other widths of cultivator teeth, sweeps, furrowers and turning shovels can be added.

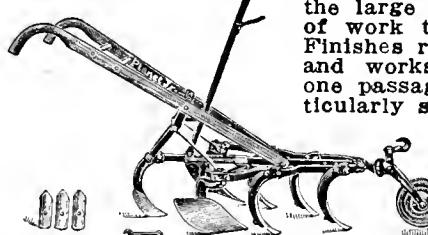


Fig. 83

## No. 90 Complete, with Wheel

\$17.00

No. 90B (without Pulverizer), \$14.00

No. 91 (with wheel), \$13.00



Fig. 84

A valuable tool in the market garden, truck and strawberry patches. Has new steel wheel which prevents clogging. Its 12 chisel-shaped teeth cut out all weeds, stir and mellow the soil and leave the ground in the finest condition without throwing dirt on plants.

### McCormick-Deering Vertical Lift Mowers

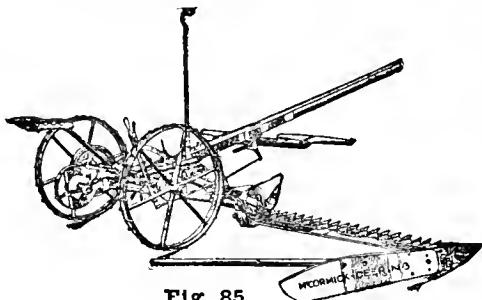


Fig. 85

This mower, so well known by the farmer in general, is particularly adapted for New England use. It is made in rugged shape to stand the local conditions and the vertical lift which we sell especially in McCormick-Deering mowers is recognized as a great addition to the hay tool line in general.

The main lifting lever is equipped with automatic locking device.

Equipped with tongue, neckyoke, whiffletrees, and two knives.

5-ft. Vertical Lift	725 lbs.	....
6-ft. Regular Lift	800 lbs.	....

Ask for Price

### McCormick-Deering Vertical Lift One-Horse Mower

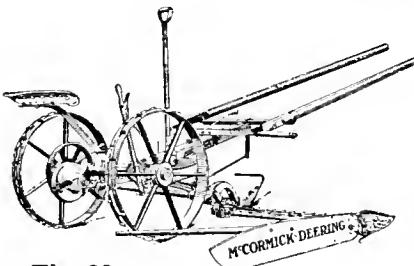


Fig. 86

The McCormick-Deering vertical lift one-horse mower is a practical machine for the farmer who has small acreage of hay to cut. It is especially suitable for the truck farmer, the poultry farmer, the man who has large premises or yards; for use in large lawns, parks, orchards, cemeteries, golf grounds, etc.

4 ft., 570 lbs. Ask for Price.

### Mowing Machine Sections

We have these sections or knives for every machine, including the Deering, McCormick, Worcester, Buckeye, Adriance Buckeye.

Per box of 25 sections \$1.50.  
Sections rivets, 25c per lb.



Fig. 87

### McCormick-Deering Steel Frame Rake

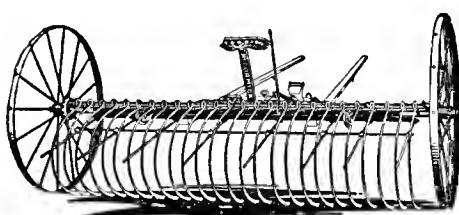


Fig. 88

This rake is made to supply the demand for an all-steel rake. We believe that it is the best of the entire lot. It is a horse dump-rake. Strength and simplicity are two features of its construction. 8 FT. 25 TEETH. Price, \$45.00. 5 per cent Cash

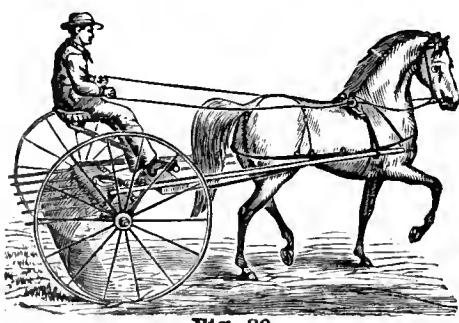


Fig. 89

### Yankee Hay Rake

24 TEETH

This is the old reliable Yankee, which needs no introduction. It is a very easy rake to operate, each tooth being independent; it will pass over large stones without breaking the teeth. It is so easy to operate that a child can handle it. Ask for Price.

### McCormick-Deering Windrow Hay Loader

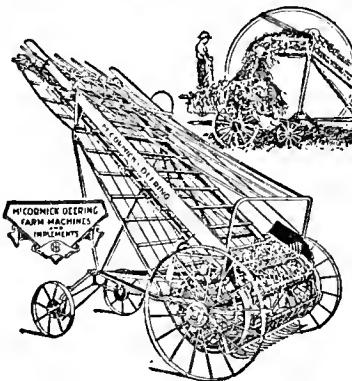


Fig. 90

This Loader is built principally of steel and is made to last. A Hay Loader is just as essential as a side delivery rake for the economical handling of hay. It does quicker and better work and at the same time saves labor. The McCormick-Deering Loader enables you to keep ahead of the weather. The loader can be detached from the wagon by the driver simply pulling a rope extending to the top of the load which enables him to drive to the barn, while the next team picks up the loader. Weight with forecarriage, 915 lbs.

Ask for Price

### McCormick-Deering Side Rake and Tedder

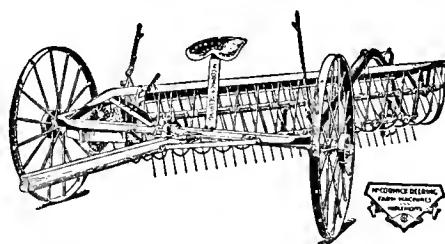


Fig. 91

The left hand delivery of the McCormick-Deering combined side rake and tedder allows you to follow the mower closely and rake the hay before the leaves begin to wilt. This is practically the same construction as the regular side delivery rakes, which do not have the reversing mechanism for tedding that this machine has. The teeth strike the

head of the hay first and rake much cleaner, and turning the hay into a neat, airy windrow, where the air gets an equal chance at stems and leaves. Air-cured hay is better than sun-dried hay.

The left-hand delivery deposits the windrow on the clean stubble and not on the unturned swath, as in the case of the right-handed rake. Weight, 940 lbs. Ask for Price.

### McCormick-Deering Hay Tedder

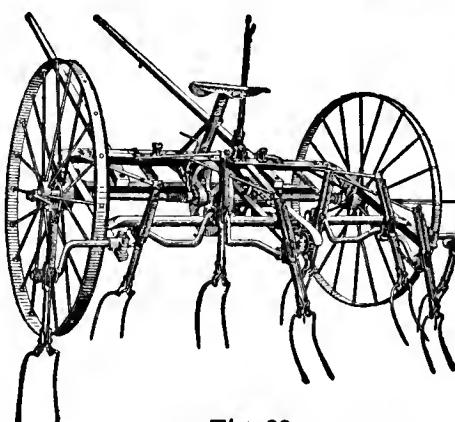


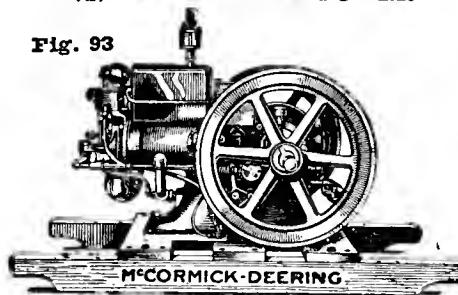
Fig. 92

This is the neatest and most substantially built steel frame hay tedder on the market. It has a solid steel axle and on stony ground we recommend this to any other tedder. We believe an entire steel tedder made like this one will outlast any other tedder on the market today. It has two levers, one throwing in and out of gear and one for raising and lowering the forks for uneven ground. It has combined pole and shafts so it can be used for either one or two

horses. It is the best steel-frame hay tedder on the market—six forks. Ask for Price. Weight, 590 lbs.

### McCormick-Deering Type M Kerosene Engine 1½, 3 and 6 HORSE POWER

Fig. 93



M'CORMICK-DEERING

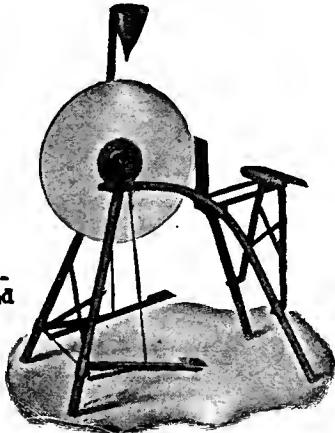
Here are some of the good points. When taken apart the engine is in ten units or groups of parts, so that any trouble can be detected easily and remedied. The base crank case and cylinder water-jacket are cast in one piece. This means perfect alignment of parts. There are three openings into the crank case that give access to every part. The crank case can be drained of oil. This means a clean engine. The piston has four rings that hold compression perfectly. The connecting rod has wide, thick bearings. The mixer adjustments are so simple that the engine can be operated by an inexperienced person.

1½ Horse Power, Weight 325 lbs..... \$ 68.75  
3 Horse Power, Weight 460 lbs..... 110.00  
6 Horse Power, Weight 870 lbs..... 177.50  
5% Discount for Cash.

### Victor Tubular Steel Frame Grind- Stone

With Foot-  
Treadle and  
Seat

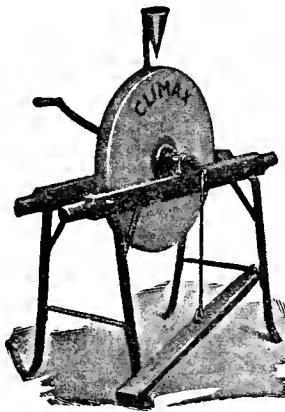
Fig. 95



Adjustable seat, 4 to 5 inches, vertically. Stone movable forward and back on frame. Frame being slightly flexible, it adjusts itself to uneven floors or surfaces. Rigid and easily set up. Bi-treadle with power properly applied. Hinged connection with ball-bearings on crank. Ball-bearings in journals. Frame is narrow at top, making it convenient to apply power, and spread at base, giving greater rigidity. Crated complete, stone protected. Made in one size about 100 lb. stone. Price \$9.50.

### Wilcox Mounted Grind- Stone

Fig. 96



This is the best low-priced grindstone on the market. The stone is best Berea Grit (Ohio), the legs are iron which will not rot if left out during haying; the wood sidepieces are painted bright vermilion. Runs on ball-bearings, and every stone warranted to run true.

No. 1, about 100 lbs..... \$8.00  
No. 2, about 120 lbs..... 9.25  
No. 3, about 135 lbs..... 9.75

### Tilting Table Wood and Pole Saw

The above will give you an excellent idea of the high type of these saws. They are made of good material throughout and are built in a thoroughly workmanlike manner in every respect. The arbors are of steel, the bearings long and well babbited. The balance wheels are heavy and well balanced. This machine is finished in an attractive manner. It has a tilting table pivoted so that it balances perfectly, and is therefore a great favorite with the sawyer. Weight, 275 lbs.

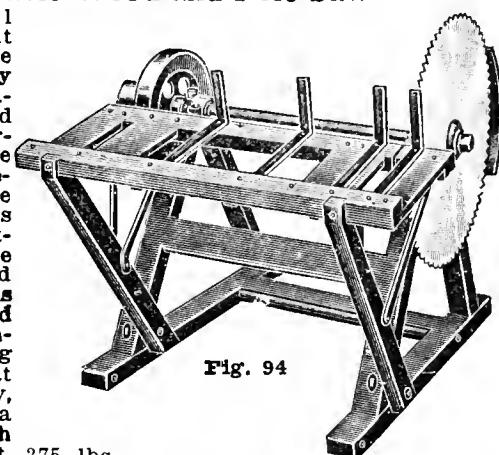


Fig. 94

**TILTING TABLE WOOD SAW FRAME** with 65 lb. balance wheel, less saw..... \$24.00

**TILTING TABLE POLE SAW FRAME** with 65 lb. balance wheel, less saw..... 35.00  
Wood Saws, 1½-inch Arbor.

20 inch .....	\$4.10	26 inch .....	\$6.65
22 inch .....	4.80	28 inch .....	7.85
24 inch .....	5.75	30 inch .....	8.90

### Hecla Wood Frame Mounted Grind-Stone

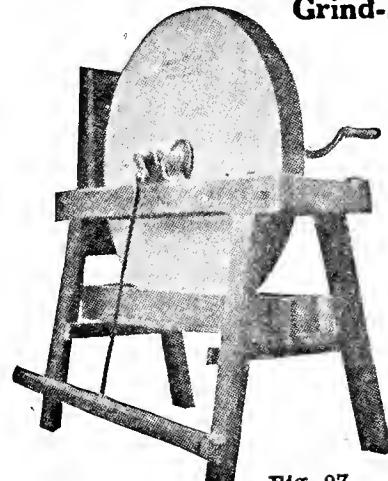


Fig. 97

The stones in these are best Nova Scotia Grit, mounted on heavy hardwood frame. It pays to buy a good article.

24x2 .....	\$21.50
24x3 .....	26.25
26x2½ .....	26.50
26x3 .....	28.50

### All Emperor Rakes Have Combination Thills for One or Two Horses

Among the many valuable features of the Emperor are:

A double-trussed frame that prevents all sagging of frame or axle.

A hand lever that cannot change position when the foot dump is used.

A revolving steel axle and positive dump that cannot get out of order.

A dumping ratchet provided with flanges that strengthen the axle.

A reversible dump dog of hardened steel than can be changed to four different positions should any wear occur.

A cam action for releasing the dog, which drops the teeth without shock or noise.

A flexible joint by which the teeth may be held down to their work or carried high for any distance with the same foot.

The tooth head is so attached to the axle that the teeth keep their places and rake clean, going up or down hill, no matter how steep.

The teeth are so hung in the head that they can be taken out and put in with the least trouble; are flattened and have chisel points that will not dig, take up least dust, offer least resistance, and reduce the draft.

We furnish short teeth at end to keep hay out of wheels and hooks to keep hay from rolling, when so ordered.

Adjustable seat, secure foot rest, best selected material, steel axles and truss rods, hickory cleaners, and wheels of our own make, with round felloes and clipped joints.

Price, \$45.00.

All prices in this catalogue are subject to change without notice.

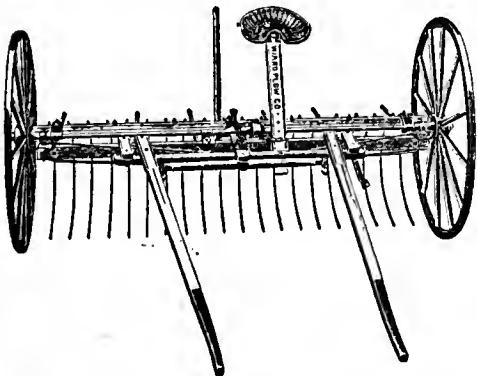


Fig. 98

### McCormick-Deering Ensilage Cutter

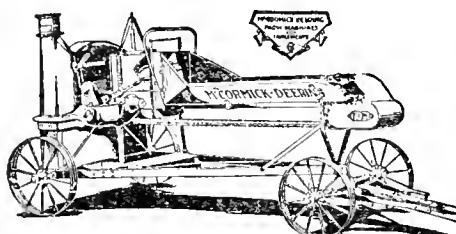


Fig. 99

The McCormick-Deering No. 12 ensilage cutter is carefully designed and skillfully constructed to cut large quantities of ensilage with a minimum of power requirements. The foundation is a one-piece main frame, enclosing the flywheel, cutter, transmission and apron drive. Working parts are enclosed and run in a bath of oil. To vary the length of cut, it is not necessary to stop the machine and change the gears, as this is done with a lever outside the frame. Selective-gear transmission controls the speed. Flywheel is of reinforced boiler-plate steel with four knives and eight steel wings. The cutting knives are secured on the flywheel. This design assures safety at all working speeds. **No. 12 Mounted, \$350.00. 5% Discount for Cash.**

On skids, G, \$257.00; F, \$205.00; 5% discount for cash. Mounted, G, \$284.00; F, \$230.75. 5% discount for cash.

### The McCormick-Deering Corn Binder

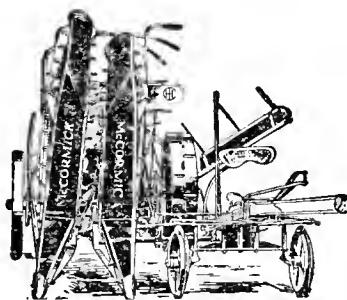


Fig. 100

The McCormick-Deering Corn Binder picks up down and tangled corn. There is bound to be some down corn in practically every corn field. The storms and wind will blow it down and it is sometimes badly twisted and tangled. Corn in this condition is difficult to handle either by hand or by machine. The McCormick-Deering is especially adapted for that particular class of work. It cuts and binds into even sized bundles. It is equipped with elevator chains which help especially to pick up down corn. There

is no waste and you always get a neat job when you use the McCormick-Deering. The binder can be set up any desired height. The distance between the gathering points on the corn binder is 22 inches. This will enable anyone to follow the row without missing a single hill.

Complete catalogue showing the McCormick-Deering line in detail will be mailed on request. Weight, 1,610 lbs. Ask for price.

### Red Warrior Heavy Service Belting

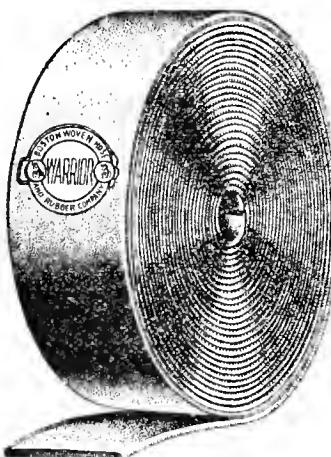


Fig. 102

Red Warrior Belting has been developed from long-continued tests and experiments under severest conditions of actual use, to anticipate the rapidly growing demand for a high quality red rubber belt.

The body is of 32-oz. closely woven duck with a 22-lb. friction binder. Red Warrior conquers the foes of efficient power transmission. It is made for the hardest kind of service.

#### PRICE

4 in.	4 ply	37c per ft.
5 in.	4 ply	45c per ft.
6 in.	4 ply	55c per ft.

### Harder Silos

#### Wood

#### Cement

For twenty years Ross Bros. Co. has represented Harder Silo Co. in Worcester County. Over the years we have found Harder Products of the highest quality. The Harder Co. has always guaranteed the silos to us and we guarantee them to you. We solicit your silo inquiries.

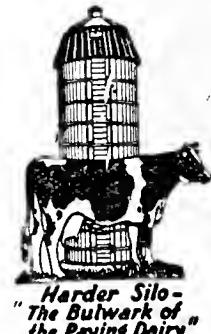


Fig. 101

### Blizzard Cutters

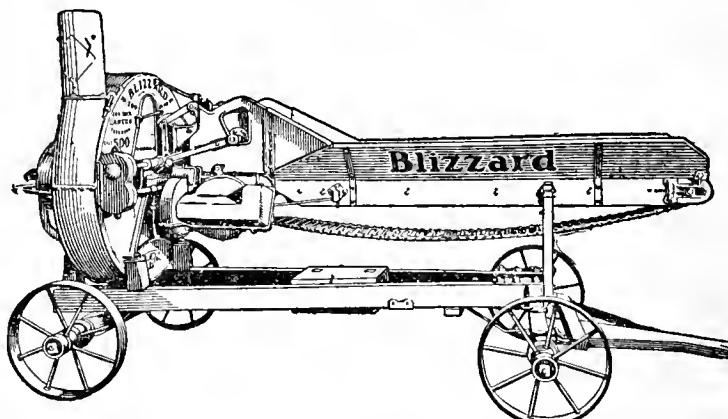


Fig. 103

This illustration shows Blizzard Cutter and Blower with self-feed table. The endless apron is composed of two steel chains on which are riveted steel slats. These chains are propelled and travel over sprocket wheels secured to a separate shaft directly in the rear of the lower feed roll. The bearings on this shaft are made adjustable, to take up the wear on the drive. The lower feed roll and the traveling table are driven from the same shaft, each by its own sprocket wheel and chain. This device reduces the strain on the drive chain to a large extent. This machine can be operated successfully with a smaller amount of power than any similar cutter on the market.

	Dimensions of				Weight Lbs. 30 Ft. Pipe	Price \$275.00
	Throat Inches	Capacity Tons	H. P.	Speed		
<b>No. 400</b>	11x5½	7 to 14	7-14	800 RPM	1500	\$275.00
<b>No. 500</b>	13x6	10 to 20	10-20	750 RPM	1750	310.00

5% Discount for Cash

All prices in this catalogue are subject to change without notice.

# No Barn Is Complete Without One of These Horse Hay Fork Fixtures

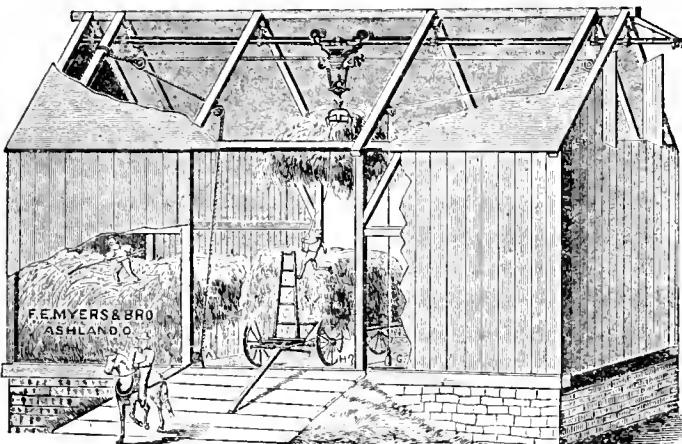


Fig. 104

## Reversible Steel Track Hay Carriers

These carriers for rod, wood or steel track are the most durable and easiest rigs to operate of any on the market. Anyone with a hammer and wrench can rig his barn as well as an expert carpenter. We furnish everything necessary for rigging any style of barn. If you will send us the length and height of your barn and style of ridge pole, we will name you price for complete job.

Fig. A.	Double Steel Track, per ft.	\$ 0.23
Fig. B.	Hanger Hook, per doz.	2.25
Fig. C.	Pulley Hook, per doz.	2.25
Fig. D.	Hay Unloader, each.	10.25
Fig. E.	Knot Passing Pulley, each.	.70
Fig. F.	Two-tine Harpoon Fork, 25 inch, each.	2.50
	31 inch, each.	2.75
Fig. G.	Four-tine Grapple Fork.	10.50
Fig. H.	Six-tine Grapple Fork.	12.00
Fig. I.	Rafter Bracket, per doz.	1.00
Fig. J.	Jointed Hanger Hooks, per doz.	3.00

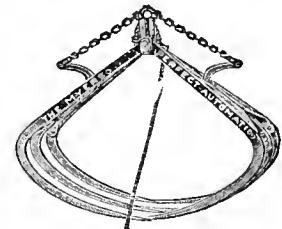


Fig. H

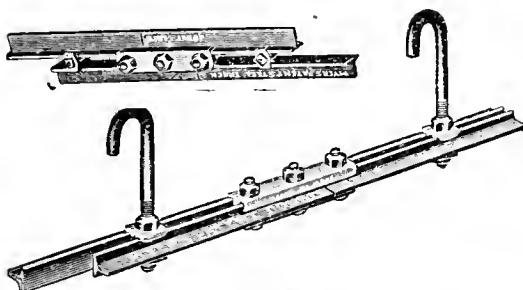


Fig. A

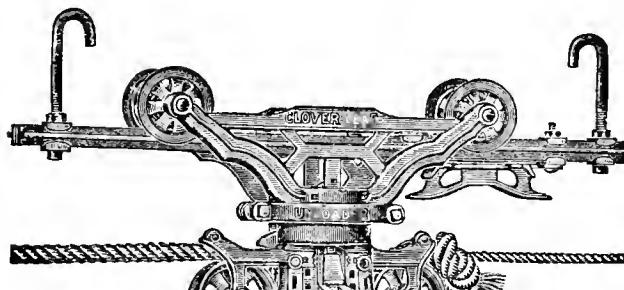


Fig. D



Fig. G



Fig. B



Fig. C



Fig. J

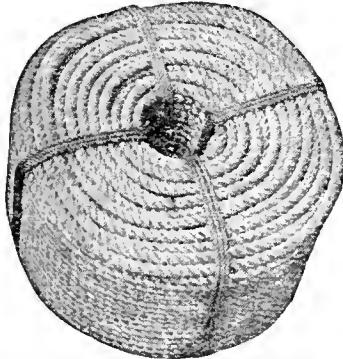


Fig. 105

## Pure Manila Rope

	1 Lb. Equals	Price
1/4 inch	55 feet	33c
5/8-inch	27 feet	31c
1/2-inch	13 feet 4 in.	28c
5/8-inch	7 feet 6 in.	26c
3/4-inch	6 feet	25c
1-inch		25c

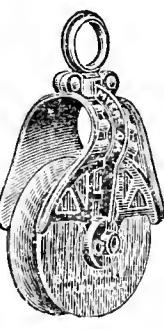


Fig. E

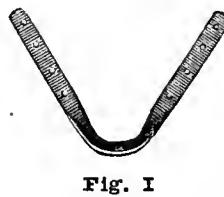


Fig. I

Terms may be arranged for extended credit should our customers so desire.

## Binder Twine

Put up six balls to bale.  
Market Price.

Fig. 106

Each \$2.00



Fig. 107

## Tarred Lath Yarn

In coils of about 50 lbs., wound in rope form. Each rope contains 130 ends. Used in tying corn and for various other uses.  
Per lb. .... 23c

Market Price.

## Gator Hide Mulch Paper

Speeds Crops

Stops Weeds



Fig. 108

Gator-Hide Mulch Paper hastens seed germination and promotes growth. Note the better stand and increased size of the mulched Corn as compared with the unmulched. Both planted at the same time.

Type	Width	Length	Sq. Ft.	Per Roll
A (light weight)	18 in.	900 ft.	1,350	\$3.00
A " "	36 in.	900 ft.	2,700	6.00
B (heavy weight)	18 in.	450 ft.	675	3.00
B " "	36 in.	450 ft.	1,350	6.00

Garden package 18 inches wide Type B Heavy, 15 yards, 65 cts.

## The Putnam Brooder

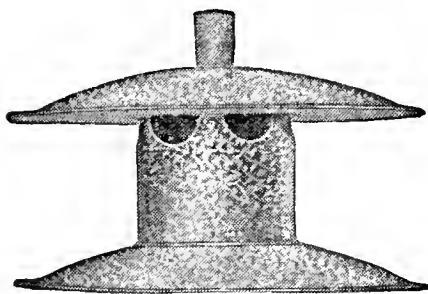


Fig. 109

This little article makes the best little brooder in the world. Stove costs \$4.75. With the stove we will furnish directions for building. Anyone can make this brooder out of a shoe box in a little while.

A shoe box, a few nails, this stove and an hour's time gives you a brooder which will serve you as well as any other on the market. Weight, 6 lbs. Stove ..... \$4.75

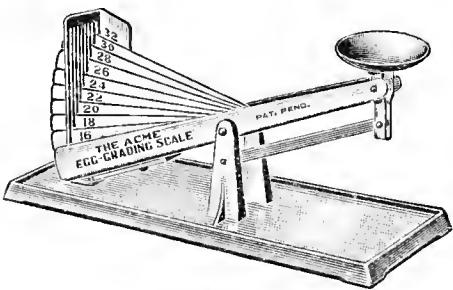


Fig. 110

The Acme Egg-Grading Scale is made entirely of aluminum, which makes it rust-proof and practically indestructible. Every part is accurately made and carefully tested and will meet the requirements of any state bureau of weights and measures.

The operation of this scale is so simple that a child can operate it. By placing an egg in the cup the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in ounces of one dozen like eggs. Hence this egg should be placed in a carton, or case, which is properly marked for that particular grade of eggs. No. 1 Grades, 16-32 oz. No. 3 Grades, 19-30 oz. Price, \$2.85. Weight, 2 lbs.

operate it. By placing an egg in the cup the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in ounces of one dozen like eggs. Hence this egg should be placed in a carton, or case, which is properly marked for that particular grade of eggs. No. 1 Grades, 16-32 oz. No. 3 Grades, 19-30 oz.

Price, \$2.85. Weight, 2 lbs.

REG. U. S. PAT. OFF.  
**CELO-GLASS**  
U. S. PATENT 1,580,287

**CELO-GLASS** is a new, unbreakable glass. It is the most economical and practical glazing material on the market. It replaces ordinary, fragile, costly glass for nearly every purpose.

**CELO-GLASS** is made of coarse mesh galvanized wire cloth treated in such a manner that the spaces between the strands are filled with a clear, translucent, tough, flexible substance that will not rub off, peel or become brittle.

**CELO-GLASS** is widely used for poultry houses, hot beds and cold frames, for hog house windows, for dairy barn windows, and for many practical purposes on the farm and in the home.

**CELO-GLASS** is made in rolls, 1 yard wide and can be cut to any required size and installed with staples and a hammer. Construction on frames is advised for all installations. Price, postpaid, 15c per sq. ft. By express, 25, 50, 100 ft. rolls, 13½c. per sq. ft.

## Glass Cloth

Not glass, but a specially processed strong fabric treated to render it transparent, weatherproof and waterproof, shutting out cold, snow, wind and rain; transparent to admit light and warmth and the valuable Ultra Violet rays of the sun which are so necessary and beneficial to animal and vegetable life. Prepaid prices, by parcel post or express. We send the cheapest way. Single yard, 40c; 5 yards, \$1.75; 10 yards, \$3.50; 15 yards, \$5.00; 50 yards, \$15.00; 100 yards, \$30.00. Add 2c per yard outside of United States.

## Chip Egg Boxes

(3x4)

## Handy for Retail Trade

	Wt. Price
Dozen .....	2 lbs. \$0.15
Bundle of 125. 12 lbs.	1.00
Ask for prices in larger quantities.	

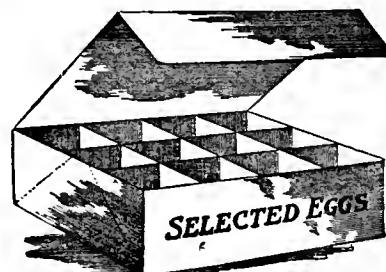


Fig. 111

## Aluminized Metal Egg Crate

## FOR PARCEL POST

have proven itself by constant use to be the most practical. Ideal for shipping eggs, butter and other farm products by parcel post.

It is practically egg-break-proof.

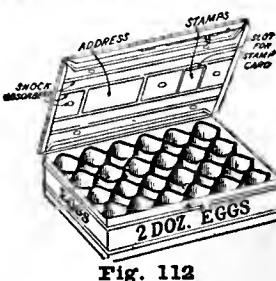


Fig. 112

## Reversible Address Card

placed under the lid provides for going and returning addresses, making the Crate intermailable between two parties. This eliminates readdressing for each shipment. Stamp slips are also provided, so that shipper may pay and place postage for the return mailing.

Postage is no more than for other Egg Carriers. Price	
1 dozen size—all eggs, 1 ½ pounds.....	\$1.00
1 ½ dozen size—all eggs, 3 pounds.....	1.25
2 dozen size—all eggs, 3 pounds.....	1.50
3 dozen size—all eggs, 4 pounds.....	1.75
4 dozen size—all eggs, 5 pounds.....	2.00
6 dozen size—all eggs, 6 pounds.....	2.50
9 dozen size—all eggs, 8 pounds.....	3.25
12 dozen size—all eggs, 10 pounds.....	4.00

### Newtown Coal Brooders Save Chicks Where Others Fail

Newtown Coal Brooders are designed and constructed to save the largest possible number of chicks. You are interested in a brooder which will provide plenty of heat in the most severe weather. Because of the weight, coal capacity, saving of fuel and exclusive features which no other brooder can give you, this NEWTOWN is the outstanding brooder today. The large coal capacity insures plenty of heat without refueling more often than 24 hours and the heavy heat retaining castings insure the proper brooding temperature at any season of the year.

Newtown Brooders have bar metal thermostats instead of the usual wafer type, which insure long life to the regulator. Poultrymen throughout the country are using larger brooders each year and we give you herewith the two sizes which will insure your chicks against mortality caused through chilling or over-heating. The No. 11 is suitable for a 10x12 or 12x14 house and the No. 12 for a house 14x16 or even larger. Both brooders sold on a 30-day money-back guarantee.

Size	Chick Capacity	Diameter of Hover	Weight Crated	Size of Smoke Pipe	Price
No. 11	500	50 in.	202 lbs.	4 in.	\$32.50
No. 12	1,000	56 in.	306 lbs.	5 in.	40.00

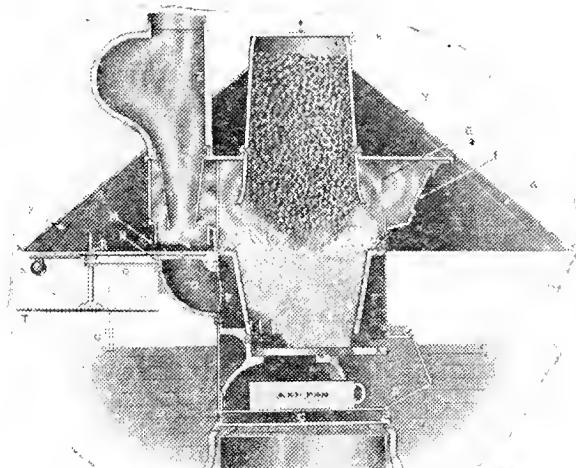


Fig. 113

### The Dandy Coal Burning Brooder

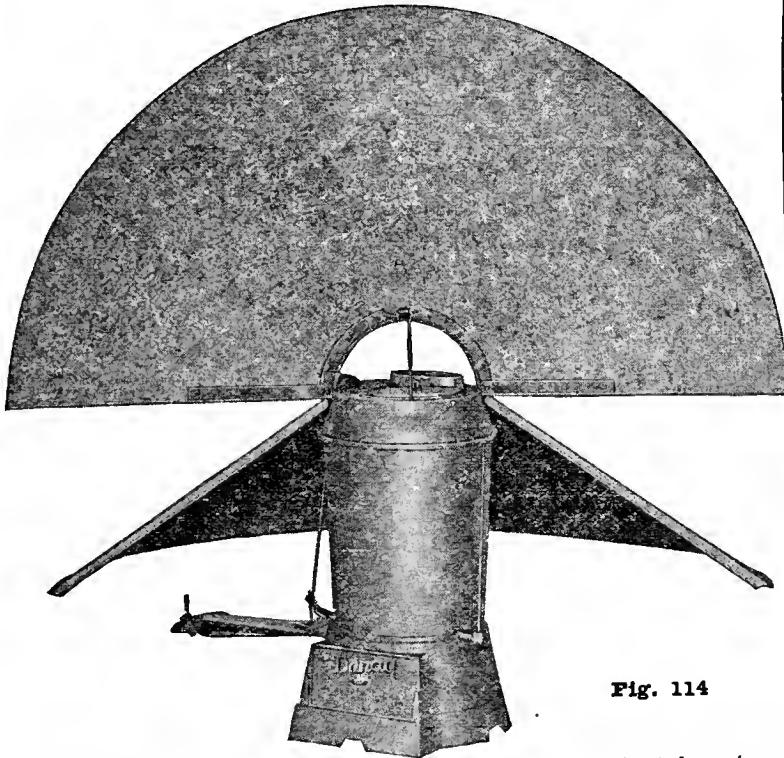


Fig. 114

The Dandy brooder offers you one of the greatest brooder values on the market today. Automatically feeds coal to the fire, double check draft automatically controlled and has a big new hinged hover.

Model	Diameter of Hover	Capacity Chicks	Coal Capacity	Ship. Wt.	Price
No. 36	42 in.	350	30 lbs.	98 lbs.	\$14.00
No. 35	52 in.	500	40 lbs.	109 lbs.	17.50
No. 39	56 in.	1,000	62 lbs.	140 lbs.	21.00
No. 40	62 in.	1,200	75 lbs.	155 lbs.	25.00

### Reliable Brass Wafer Thermostats

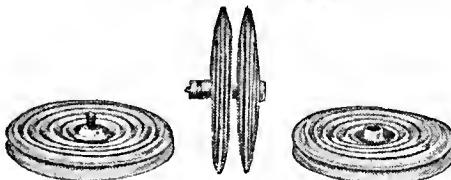


Fig. 118

Under a like condition will function the same. They are sensitive, accurate and durable.

The double wafer has a solid post between the two units, making each unit separate and independent of the other, so that should one of the units become damaged, the other would continue to function, thus giving double protection.

Price, postpaid, 3-in., 50c; 4-in., 80c; 5-in., \$1.00.

For any Incubator or Brooder. Made in both the single and double unit style. They are made of a special tempered brass, vacuum filled and timed to meet their special requirements, so that each and every wafer

No.	Size of Canopy in.	Capacity	Ship. Wt. Complete, lbs.	Price
9	42	500 or less	22	80
10	52	1,000 or less	26	106
12	62	1,200 or less	26	122

### Roof Saddles

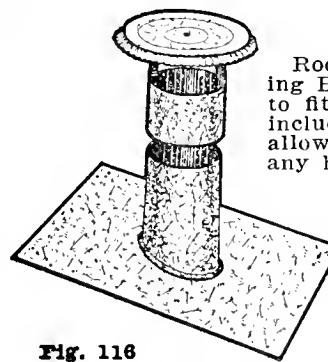


Fig. 116

Roof saddles for installing Coal Burning Brooders. Made of galvanized steel to fit either side of roof. Rain cap is included, but not fastened to saddle, allowing adjustment of outside pipe to any height wanted.

3-inch with Base Plate 11x12". Mailing weight, 5 lbs.

4-inch with Base Plate 11x12". Mailing weight, 5 lbs.

5-inch with Base Plate 11x12". Mailing weight, 5 lbs.

Price, 3 in., 85c; 5-in., 95c; 5-in., \$1.00. Add for postage.

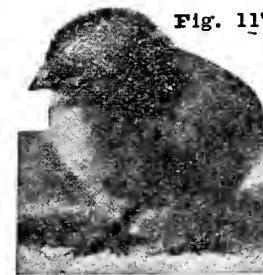


Fig. 117

### Husky Day Old Chicks

Guaranteed safe arrival when shipped direct from our hatchery.

Our advice is to get your order in early for day-old chicks and not be disappointed the way many were last year, not being able to get their orders when wanted.

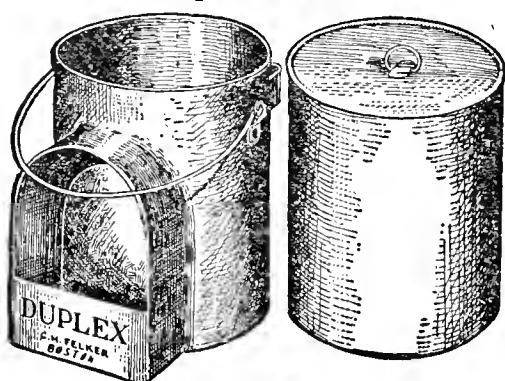
**Duplex Fount**

Fig. 130

Perfectly sanitary. Made of heavy galvanized iron. Take off the top, fill it, put on the lower part and you have a fount that will keep your flock healthy. Tends to keep water cool—summer and does not freeze readily—winter.

4 qt. \$1.15 each, wgt. 3 lbs.; 8 qt. \$1.40 each, wgt. 4 lbs.

**DUPLEX TWIN FOUNTAIN** (two outlet hoods), 8 qt. \$1.65. Wgt. 4 lbs.

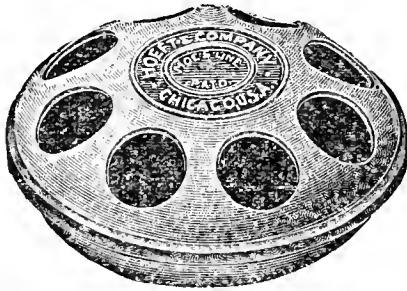
**Round Baby Chick Feeders**

Fig. 131

12 hole each. Wgt. each 2 lbs. 20 cts.  
8 hole each. Wgt. each 2 lbs. 10 cts.



Fig. 132

12 in., Double Trough	25 cts.
18 in.	35 cts.
24 in.	45 cts.
36 in.	60 cts.
10 in. Trough for feeding butter-milk, aluminum	50 cts.
20 in. Trough for feeding butter-milk, aluminum	85 cts.
Mailing weight 3 lbs.	

**Leader Fountain**

A new Sanitary Fountain, practical to use, easy to keep clean.

A saving of from 30 to 40% over any fountain of its size.

1 1/2 gal. Mailing wgt. 5 lbs. Price, 85 cts.

3 gal. Mailing wgt. 8 lbs. Price, \$1.50. Postpaid.

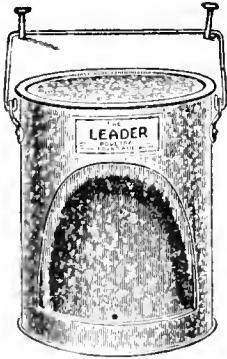


Fig. 133

**The "Insulated Duplex" Non-Freezing Fountain**

The extra large opening, or drinking trough, which this fountain carries makes it easy of access to a number of fowls at the same time.

An entirely new and improved method of insulation enables this fountain to keep water at an even temperature the coldest day of winter and the hottest day of summer.

3 gal. .... \$4.50  
Wgt. 20 lbs.  
4 gal. .... \$5.00  
Wgt. 23 lbs.

**Wall Fount**

4 qt. .... \$0.90  
Wgt. 2 lbs.

8 qt. .... \$1.25  
Wgt. 3 lbs.

Fig. 122

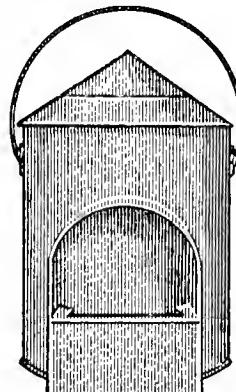
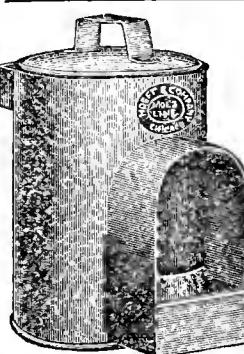


Fig. 121



**X-Ray Egg Tester** .... \$0.25  
30c Postpaid

**Poultry Killing Knife**

Price, each, \$0.60  
Postpaid, 65c



Fig. 120



Fig. 124

Poultrymen can double their profits by Caponizing their chicks. The operation is very simple—the instruction so full and explicit that anyone will be able to perform the operation. Capons are worth \$1.00 to \$1.50 more than cocks not Caponized. They are very much quieter in disposition.

Complete with instructions, \$5.00. We send book, "Complete Guide for Caponizing," with every set.

Philadelphia set in velvet case, \$3.50. Postpaid.

See inside front cover of catalogue for Parcel Post rates.

**Peerless Fount**

Take off bottom to fill.  
1 qt. 35 cts., wgt. 1 lb.;  
5 qts. 90 cts., wgt. 3 lbs.;  
10 qts. \$1.25, wgt. 4 lbs.

Fig. 125

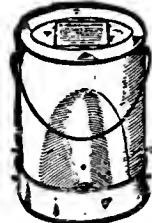
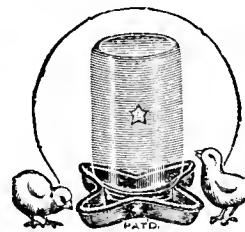
**Star Chick Feeder and Fount**

Fig. 126

**Two-Piece Fountain**

Fig. 127

Fit any mason jar. 1 qt. .... 25 cts.  
2 qt. .... 30 cts.  
Price, each, 10 cts. 4 qt. .... 45 cts.  
15 cts. Postpaid. Mailing wgt. 2 lbs.

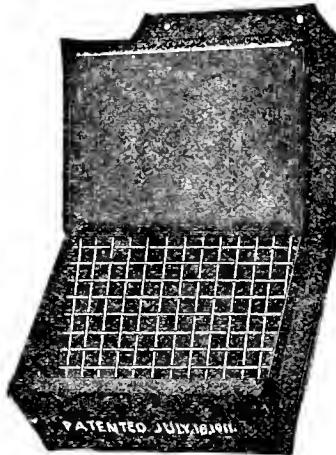
**Sexton's Dry Feed Hopper Open**

Fig. 128

Pronounced to be the best hopper offered. Construction, easily operated and absolutely "Rat" and "Mouse" Proof.

The lower cover is so arranged that it is held up by locking the top cover of Hopper over same and by raising the top cover the lower cover will fall in place.

This Hopper is arranged to hang on the wall the desired distance from floor and never need be removed from the wall to be refilled. It is impossible to waste any feed, as the pan at the bottom takes any feed that may be picked out and the last crumb can be used, therefore saving any waste.

Price, No. 2, 3 qt. \$1.10, 3 lbs. Price, No. 1, 12 qt. \$1.50, 5 lbs. Price, No. 5, 24 qt. \$2.40, 7 lbs.

**Earthen Pigeon Bowl**

All pigeon fanciers recommend this style of bowl for their coops.  
Per doz. .... \$2.00  
Each ..... 25  
Wgt. each, 4 lbs.

Fig. 129

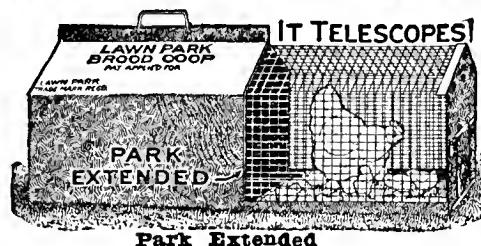
**Lawn Park Coops****THE LAWN PARK COOP SAVES THE CHICKS**

Fig. 134

The wire park pulls out like a bureau drawer and is made from heavy galvanized hardware cloth. The main coop is made from strong 28 gauge galvanized iron. Size of coop, when park is fully extended as shown in cut, is 18 inches wide, 19½ inches high and 48 inches long. When park is closed it is 24 inches long.

A small door is provided to let small chicks only have full range as desired.

Protect the chicks from hawks, rats, weasels, vermin, cold, storms, etc. Give proper ventilation and sanitation. Price, each, \$3.75. Three for \$10.00.

**Worcester Oat Sprouter**

It pays to feed green stuff in winter.

With this mechanical device green feed can be given to the poultry at all times. The tray contains five sprouting pans with a bottom drip pan full of sprouted oats each day and replacing this same pan with a fresh supply of oats, the new shoots from one to four inches high can be supplied to the fowls daily, giving a never failing supply of green feed.

Endorsed by all the poultry raisers and egg producers. Price, \$5.00.

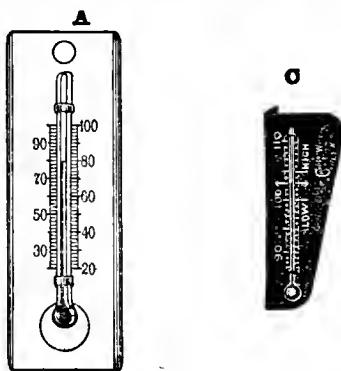


Fig. 136

**A** Brooder Thermometer, 75 cts.  
**C** Incubator Thermometer, 75 cts. Add 5 cts. for postage.

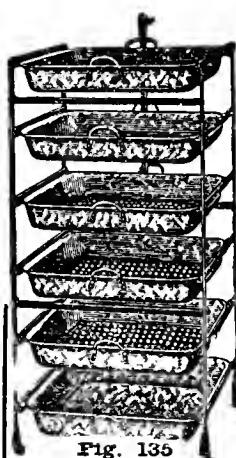


Fig. 135



Fig. 137

Any number of combinations can be obtained with one of these punches. 35 cts. Postpaid 40 cts.

**Felker's Handy Attachment**

To be used with any make of Fruit Jar

**A PERFECT FEEDER**

For Sour Milk, Water, Hard Grain or Grit. The Container is made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The HANDY is adjustable, simple to operate and durable. Every one has some kind of a quart fruit jar—the HANDY fits them all. Price 25 cts. Mailing weight 2 lbs.



Fig. 138

**Poultry Punch**

A poultry punch for marking baby chicks. Punches a clean hole in the web between the toes that will not bruise the foot. Guaranteed to work perfectly. 25 cts. each. Postpaid 30 cts.



Fig. 139

See inside front cover of catalogue for Parcel Post rates.

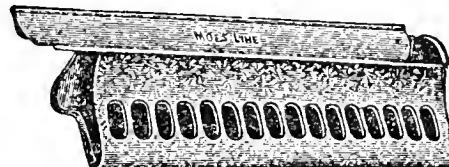
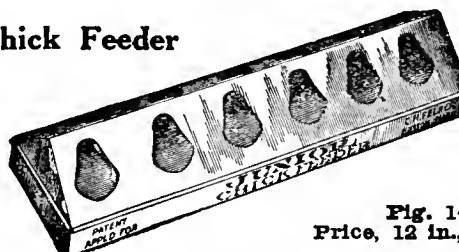
**Large Capacity Feeder**

Fig. 140

**No. 140**—Chick Feeder, each..... \$1.00  
**No. 140W**—Same as above but with wide rain cover.... 1.20

A fine feeder for growing stock, and a great time and labor saver. Has a total of 32 feeder holes. Sliding top, easy to fill and clean. Capacity, 10 quarts; length, 21 inches.

**No. 141**—The same style, but larger. Length, 35 inches. Has 54 feeder holes. Capacity, 17 quarts, each..... \$1.50  
**No. 141W**—Same as above, but with wide rain cover.... 1.75

**Junior Chick Feeder**Fig. 141  
Price, 12 in., each 25 cts.

Mailing weight, each 2 lbs. 20-in., each 40 cts.



Fig. 142

**Celluloid Bands****Assorted Colors**

	doz.	100	1000
No. 4 Baby Chick .....	\$0.10	\$0.35	\$2.40
No. 5 Pigeon .....	.10	.35	2.50
No. 6 Growing Chicks .....	.15	.40	3.00
No. 7 Bantams .....	.15	.45	3.50
No. 9 Leghorns .....	.15	.50	4.00
No. 10 Wyandottes .....	.15	.50	4.00
No. 11 Rocks, Red .....	.15	.60	5.00
No. 12 Jersey Giants, Brahmans .....	.15	.75	6.00
No. 13 Large Cocks, Turkeys..... Postpaid.	.15	.75	6.00

**CHAMPION LEG BAND**

Fig. 143



Very light weight. Per 100, 75 cts.; doz., 15 cts. Numbered 1-100. Postpaid.

**The Putnam Stove**

Fig. 144

This little stove, 9x4 inches, works wonders in cold weather. Keeps water warm in the poultry house in the coldest weather. In order to have eggs in the winter time, hens must have plenty of water. They will not drink as much cold water as warm. Costs only from 20 to 35 cents to operate during the winter. Stove, \$2.00. Postpaid.

**Imported Ground Peat for Poultry**

Imported Ground Peat is rapidly growing in favor among progressive poultrymen. This type of litter has numerous advantages over commonly used materials, such as straw, shavings, or sawdust.

First of all, it takes up moisture, keeping the house clean and dry, and preventing the spread of disease. By drying up the droppings, it keeps them from sticking to the floor or to the birds.

Price, Standard Bale, \$2.75.



# Pratts Poultry Regulator and Remedies

For Health and Eggs

## Pratts Poultry Regulator



has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. It is a natural tonic supplying numerous health necessities required by heavy laying hens. Tones up systems, regulates bowels, aids digestion, sharpens appetite, wards off disease and increases vitality. Use it the year round for breeders, layers and growing stock.

Weight 4 lbs., 50 cts., \$1.40 packages, weight 12 lbs.; 25-lb. pail, \$3.00; 100-lb. drum, \$10.00.



## Pratts Powdered Lice Killer

is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dust-baths, nests, etc. Rids poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers.

In sifter top cans at 25 cts. and 50 cts. 30 cts. and 60 cts. postpaid.



## Pratts Chick Tablets

Prevents Baby Chick losses by keeping food, water and living quarters clean and sweet and add crushed Pratts Chick Tablets—one to each quart of drinking water—for the first month. They make the drinking water safe, tone up the chicks and effectively treat most diarrhea troubles by acting as an intestinal antiseptic and checking harmful fermentation and gas formation. Price: \$0.25 and \$0.50. Postpaid: \$0.30 and \$0.55.



## Pratts R-P Tablets

Formerly Pratts Roup Tablets  
FOR ADULT FOWLS

Pratts R-P Tablets are cheap and safe. They may be given to individual birds or added to drinking water in any kind of vessel. Use one tablet, crushed to each quart of drinking water. Price: \$0.25 and \$0.50. Postpaid: \$0.30 and \$0.55.

## Pratts Disinfectant

insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Spray it about poultry houses, roosts, dropping boards, nests and wherever a strong disinfectant is needed. A deodorizer, germicide and liquid lice killer. Effective in the treatment of roup, cold and contagious diseases.

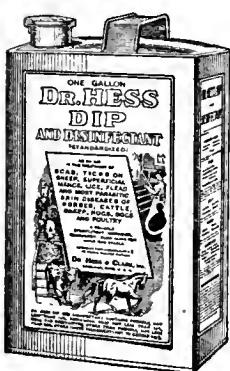
Quart, weight 3 lbs., 60 cts.; half gallon, weight 6 lbs., \$1.00; gallon, weight 11 lbs., \$1.60.

# DR. HESS Poultry and Stock Preparations

## Dr. Hess Dip and Disinfectant

Dr. Hess Dip and Disinfectant makes a perfect milk-white emulsion—never any streaks or settling. Remains in emulsion indefinitely. Is standardized with an established carbolic acid co-efficient; always uniform in strength, no matter where purchased.

Because of its strength, its uniformity, its perfect emulsifying qualities, it is a most inexpensive dip to use. Valuable about barns and stables, kills hog lice and other parasites and keeps down foul odors. 1 qt., 3 lbs., 60 cts.; 1 gal., 10 lbs., \$1.75.



## Dr. Hess Poultry Ver-Mi-Trol

Dr. Hess Poultry Ver-Mi-Trol is a flock treatment. No individual handling of birds. Is given with the feed in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-A-Min fed regularly.

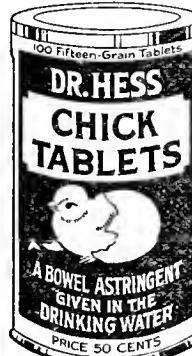
It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventative measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended. 4 lbs., \$1.25.

## Dr. Hess Instant Louse Killer

Applied by putting in dust bath. Hens work it down into the feathers, kills lice on contact. It is also applied directly to the fowl if badly infested.

Kills lice and bugs on cucumber, squash and melon vines—slugs on rose bushes. It is non-poisonous, so may be used on edible plants with entire safety. In handy sifter-top cans. 1 lb., 25 cts.; 2½ lbs. 50 cts.



## Dr. Hess Chick Tablets

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks, often mistaken for Bacillary White Diarrhea, are the result of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. A bowel astringent to be given in drinking water.

Once in solution they remain so indefinitely. No need for further stirring. Solution is thoroughly medicated and all good until used. 50 cts. and \$1.00 pkgs. Postpaid, 55 cts. and \$1.10.

## Dr. Hess Poultry Tablets

(Formerly Roup Tablets)

Dr. Hess Poultry Tablets are of high value in treating locally the swelling incident to Roup.

Used as a local antiseptic and to medicate the drinking water. They aid in preventing spread of the disease. Once the Tablets are in solution, they remain permanently, requires no further stirring. 50 cts. and \$1.00; postpaid, 55 cts. and \$1.10.

Add postage for zone. All prices in this catalogue are subject to change without notice.

# FUL-O-PEP POULTRY FEEDS

## FUL-O-PEP EGG MASH



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## FUL-O-PEP SCRATCH GRAINS



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## Oatmeal, Molasses, Cod Liver Meal in Ful-o-Pep Mashes

Hundreds of our customers tell us that Ful-O-Pep Feeds are superior for keeping their flocks in good healthy condition and maintaining heavy egg production. They tell us also that Ful-O-Pep Feeds go farther and are more economical. We recommend Ful-O-Pep Feeds to every poultryman and know that Ful-O-Pep Feeds will help him become more successful.

Ful-O-Pep Feeds are manufactured by The Quaker Oats Company, whose fifty years milling experience with their experimental work carried on by nationally known poultry experts insures the production of superior poultry feeds.

All Ful-O-Pep Mashes contain Cod Liver Meal. In brief this essential element permits correct mineral nutrition which is of highest importance in growth, good health, heavy egg production, high fertility, strong chicks and, in fact, in improving all essential organic functions.

Ful-O-Pep Mashes also contain molasses which has proved to be exceptionally good for chickens in that it is laxative, an excellent appetizer, contains some valuable mineral and is high in food value.

We consider that molasses brings additional value to Ful-O-Pep Mashes, making it possible for poultrymen to gain all the advantage of molasses without any bother.

**Ful-O-Pep Chick Starter** is the feed to use during the critical baby chick age. For the first few days the chick is largely sustained by the yolk it absorbed while in the shell. The Starter is mild, soft and easily assimilated—just the feed to carry on and strengthen nature's process. It has the materials for making bone, tissue and feathers, as well as for developing digestive capacity. It contains Cod Liver Oil and Cod Liver Meal, both vital factors for strong, rapid growth.

**Ful-O-Pep Growing Mash:** Its base is Oatmeal, which every poultry man knows cannot be equaled for growth production. To this greatest single development food there has been added special quality Meat Scrap, Fish Scrap, Bone Meal, Alfalfa Meal, Corn and Wheat Products—supplying all the elements for a perfect growing feed.

It is a matter of common comment that a large percentage of prize winners in poultry shows and many egg laying contests in recent years are Ful-O-Pep birds, raised the Ful-O-Pep Way. Ful-O-Pep Growing Mash makes them quickly develop big, sound frames, well fleshed, with glossy feathers, showing happy, healthy, vigorous condition, insuring future heavy production.

It also contains Cod Liver Meal, which is of utmost value in feeding pullets.

**Ful-O-Pep Fine Chick Feed** is a combination of Oatmeal, Wheat and Corn in exactly the right proportion when fed with Ful-O-Pep Chick Starter to meet the requirements of the growing chick. This feed is ground fine enough so that it does not overtax the digestive machinery of the little chick.

**Ful-O-Pep Coarse Chick Feed** is coarser than Ful-O-Pep Fine Chick Feed, made from just the right assortment of grains to supplement Ful-O-Pep Growing Mash.

**Ful-O-Pep Scratch Grains** is a balanced mixture of the choicest, highest quality Corn, Wheat, Barley, Kaffir Corn, Milo Maize, Buckwheat and Sunflower. It is a most economical and high grade Scratch Feed.

**Ful-O-Pep Egg Mash:** This is the "Oatmeal Mash" properly balanced with other well known egg producing feeds. Ful-O-Pep Mash also contains Cod Liver Meal, which is largely responsible for keeping the birds in strong healthy condition and maintaining heavy egg production. Ful-O-Pep Egg Mash is helping hundreds of New England poultry men make more money with their flocks.

ASK FOR FUL-O-PEP BOOK.

## FUL-O-PEP CHICK STARTER



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## FUL-O-PEP FINE CHICK FEED



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## FUL-O-PEP COARSE CHICK FEED



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## FUL-O-PEP GROWING MASH



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

## FUL-O-PEP FATTENING FEED



The Quaker Oats Company  
MANUFACTURERS & DISTRIBUTORS  
ADDRESS CHICAGO, U.S.A.

**VERNOX.** Knocks Poultry Worms. Does not harm the Birds. An effective Remedy for both Round and Tape Worms, consisting of a Special Preparation of Kamala combined with other drugs so prepared that they are not absorbed until they reach the Parts of the Digestive Tract Inhabited by the worms.

Price, Box 50 tablets.....\$1.00 Postpaid

**GOLD LEAF TOBACCO POWDER FOR POULTRY WORMS.**

How round worms affect poultry. Owners of poultry often do not realize the injury which may be done to their flocks by attacks of intestinal worms. The failure of young birds to develop properly, and an unhealthy condition of the older birds, is often caused by the presence in their intestines of poultry round worms.

2 lbs. Mixed with 100 lbs. of mash.....\$0.35  
10 lbs. Mixed with 500 lbs. of mash.....1.00

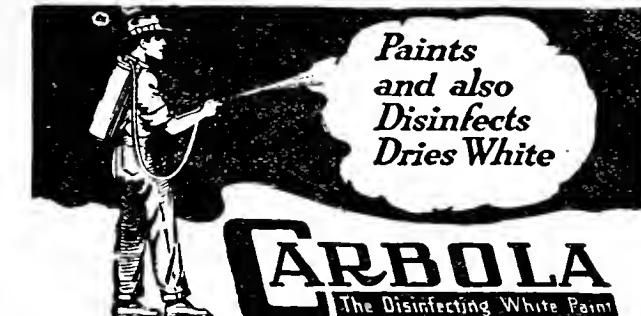
**PRATT'S N-K TABLETS.** Nicotine and Kamala. For the eradication of tape and round worms in poultry. Each tablet consists of the proper therapeutic dose of nicotine and kamala encased in a special insoluble coating.

Adult size, 50 tablets \$1.00; 100 tablets.....\$1.75  
500 tablets.....7.00  
Chick size, 50 tablets \$0.65; 100 tablets.....1.00

**PARKE, DAVIS C-A WORM CAPSULES.** Individual treatment, correct dose. Can be given any time. No setback in total egg production.

No. 196. For Turkeys and Adult Hens.  
\$1.25 for box of 50.

No. 195 For Pulletts Under 4 Months.  
90 cts. for box of 50.



### THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 sq. ft.

5 pounds (5 gal.).....\$0.75  
10 pounds (10 gal.).....1.25  
25 pounds (25 gal.).....2.75  
50 pounds (50 gal.).....5.00

### Farm Disinfectant Dairy Sterilizer

The powerful, clean, non-poisonous germ killer.  
The new and better way to sanitation.



Based on sound scientific principles proved by war experience.

B-K cannot be sent by Parcel Post.

### STERILIZERS

Milking Machines,  
Pails, Cans, Strainers,  
Cloths.

Ask for bulletins  
on these subjects.

### PREVENTION AND TREATMENT OF

Calf Scours.  
Retained Afterbirth.  
Abortion.  
1-qt. bottle.....\$0.90  
1-gal. jugs.....2.00  
5-gal. jugs.....8.50



### The "Master Breeders" Chick Box

The box is well ventilated—built to offset acute weather changes. Partition boards on both 50 and 100 chick sizes are made full height to add greater strength to the box and to prevent chicks from crowding over the top, becoming squeezed and injured.

No. S25. 25 chick size, 9x11x5 1/2 deep, one compartment, weight 12 lbs. per doz. bundle. Per doz. \$1.75, each 20c.

No. S50. 50 chick size, 18x11x5 1/2 deep, two compartments, weight 16 lbs. per doz. bundle. Per doz. \$2.00, each 25c.

No. S100. 100 chick size, 18x22x5 1/2 deep, four compartments, weight 30 lbs. per doz. bundle. Per doz. \$2.75, each 30c.

Furnished complete with staples—for assembling. By express or freight only.



Fig. 144A

**CLINTON PIGEON FEED.** It is a New England Feed, made from clean thoroughly dried grains. There is no danger in feeding Clinton Pigeon Feed. Mixed with or without corn. Market Price.

**CRUSHED OYSTER SHELL.** For poultry or chicks. 100 lbs. \$1.25.

**POULTRY GRIT.** Cracked in three sizes. No. 1, Fine; No. 2, Medium; No. 3, Coarse. 100 lbs. \$1.25.

**LAMBERT'S DEATH TO LICE.** As its name implies, it is sure death to lice on hens and chickens. It is harmless to human and animal life. Should be used on setting hens; it will not injure the eggs or harm the youngest chick. 15-oz. size 25 cts., 48-oz. size 50 cts., 100-oz. size \$1.00.

**GRAYLAWN FARM LOUSE-CHASE** kills every Louse. Rid your stock and poultry of these costly pests quickly, surely, at trifling cost. 5-oz. can 40 cts., 12-oz. can 65 cts., 22-oz. can \$1.00.

### Water Glass

A transparent liquid for preserving eggs. Comes in pints, quarts and gallons. Pint can mixed with 11 pints of boiled water will preserve from 6 to 10 dozen eggs.

This preparation is used by many in preference to the dry powder. The preservative will preserve eggs perfectly.

Price, 1 pt., wt. 3 lbs., 18 cts.; 1 qt., wt. 4 lbs., 25 cts.; 1 gal., wt. 14 lbs., 80 cts.



### Keep Down Bacteria with Sterilac

STERILAC is a very powerful non-poisonous, germ destroyer, in powder form, a wonderful agent placed in your hands to kill germs and control infection. It is 45 times stronger than carbolic acid as a germicide, yet it can be used without danger of poisoning. STERILAC is not a cleaning agent and is not to be used as such.

A one-pound bottle of STERILAC will make 480 gallons of sufficient strength for dairy purposes. Each gallon of solution will cost about one and one-quarter cent. Such a solution for your milking machine will last a week, costing less than one cent per day. You can readily see it is the most economical germ killer on the market. Price:

2-oz. bottle	.....	\$ 1.00
8-oz. bottle	.....	2.50
1-lb. bottle	.....	4.50
5-lb. pkg.	.....	16.75

Add postage for your zone.

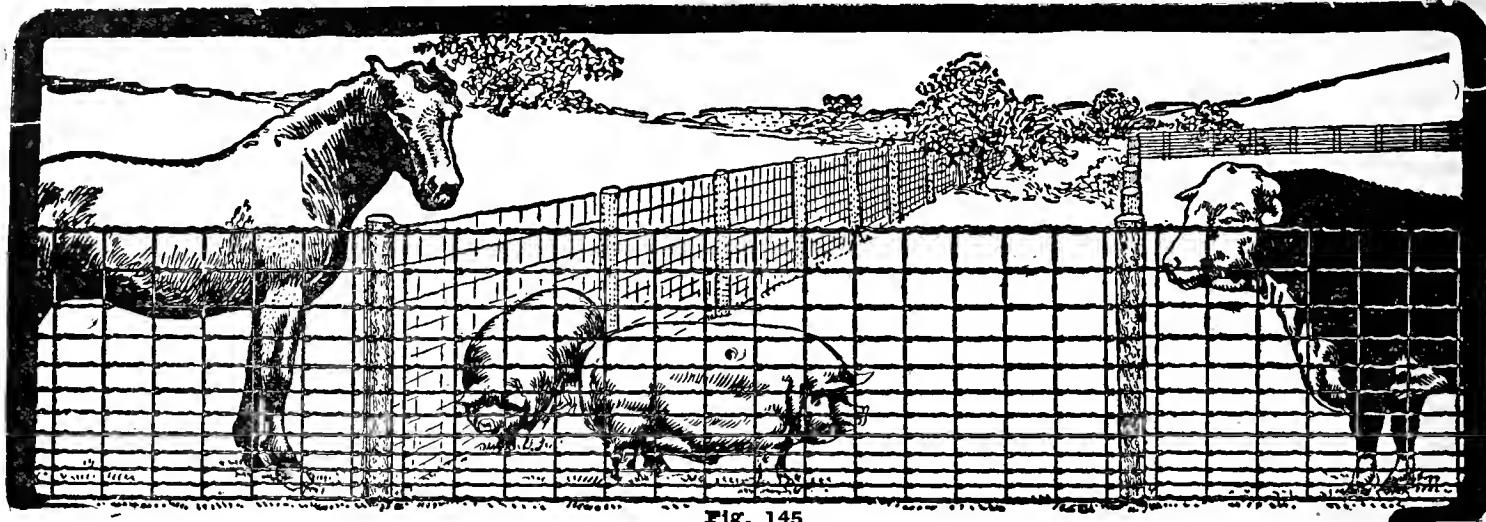


Fig. 145

**A SUBSTANTIAL FENCE** plays an important part to the profitable side of farming, and the neatness in appearance of a well put up wire fence adds more than double the cost of the fence to the price of the farm. They are to the farm in general what paint is to the buildings. **PUT UP FENCES** and let the hogs and other animals go after the waste places and turn into profit what would otherwise go to waste.

Our general purpose farm fence is the 1047x12, and the dimensions contained in the above figures are explained as follows: Figure 10 represents the number of horizontal wires, 47 represents the height in inches, and 12 represents the distance apart of the upright bars. The top bars are No. 9 wire, the bottom bar No. 10, and the intermediate bars and stays No. 11 wire. This makes an ideal up-to-date farm fence, strong enough for any use. It is heavily galvanized and will last for years and is much more sightly than the old ramshackle stone walls or wooden fences. When this fence is used in connection with steel posts, all of the weeds, etc., can be burned right up to the fence, which is another great advantage in keeping the field entirely free from refuse matter.

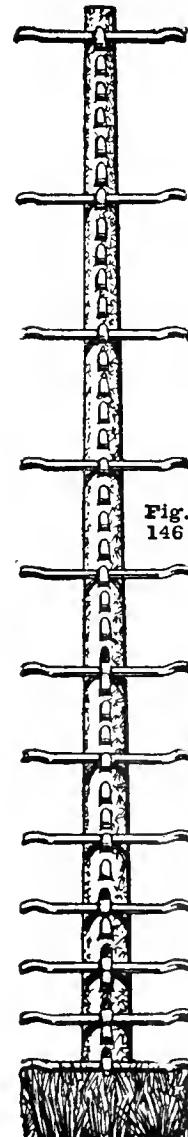


Fig. 146

We have a good stock on hand at all times of the following numbers:			
1047x12	10 rods	\$6.75	1047x 6
845x12	10 rods	5.75	635x12
832x 6	10 rods	6.75	Spec. 12 1/2—1047x 6
			10 rods \$8.50
			10 rods 4.50
			10 rods 6.25

### American Steel Fence Posts

Too much cannot be said of the American Steel Fence Post. While the first cost of the steel post and the wood post is practically the same, the steel post can be set in about 5 minutes, while the wood posts take surely a half hour. With the American Steel Post the fence line can be burned off every year, thus getting rid of insects, weeds and rubbish. The clean farm grows the best and biggest crops and with the least labor and expense.

We carry a good stock, but the following are the best sellers:  
**No. 13.** 7 1/2 ft. Each.....\$0.90  
**No. 16.** 6 1/2 ft. Each.....75  
Send for complete fence catalogue giving all details.

### American Poultry Fence

This fence combines the same features entering into the manufacture of the American Farm Fence, viz.: the Hinge Joint, Tension Curve, amply providing for connection and expansion, and its adaptability to uneven ground, without cutting or mutilating the fence.

In comparing the price of this fence with other nettings, don't forget that you are getting a fence as strong as the regular stock fence.

Made of No. 11 and No. 14 wire. This fence is much stronger than any other fence sold as a poultry fence, the Top and Bottom Bars No. 11 Galvanized Steel Wire, Intermediate Bars No. 13 Galvanized Steel Wire, Stay Wires No. 14 Galvanized Steel Wire.

At the bottom are four spaces of 1 1/2 in. each, the highest spaces graduated to 5 in.

Design No. of

No.	Bars	Height	Weight	10 rods
2158	21	58 in.	129 lbs.	\$7.50
1948	19	48 in.	115 lbs.	6.75

Send for special fence catalogue. promptly to those in this vicinity.

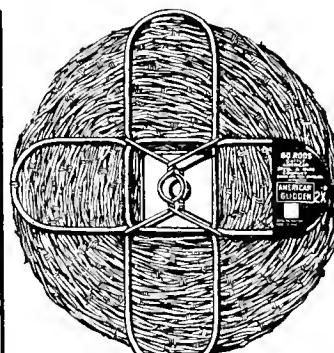


Fig. 147

### Two-Point Barb Wire



Fig. 148

### Two-Ply Twisted Wire



Fig. 149

Four-Point Lyman Cattle, 80-rod spools, each.....	\$4.00
Two-Point Cattle, 80-rod spools, each.....	3.85
Two-Ply Twisted Wire, 80-rod spools, each.....	3.75

### Excelsior Poultry and Rabbit Fence

(Not Shown)

#### Graduated Meshes

Spacing: First to fifteenth meshes, graduate from 1-in. to 1 1/2-in. All meshes above are 3 1/2-in. space and the spacing of all uprights, or stays, is 4 inches on centers. Made in three widths, 48, 60 and 72-in.

Regular Grade No. 19 Wire. For Poultry and Rabbits only.

Trade Number	Height Inches	No. of Running Wires	Approx. lbs. per 10 rod roll	Price per roll
L19	48	22	32.5	\$3.80
L19	60	25	37.5	4.40
L19	72	28	41.5	4.95
Heavy Grade No. 17. Wire No. 15 Selvage				
H17	48	22	51.5	5.15
H17	60	25	60.5	5.90
H17	72	28	69	6.65

Estimates on field, farm and lawn fences all put up furnished

## Galvanized Poultry Netting

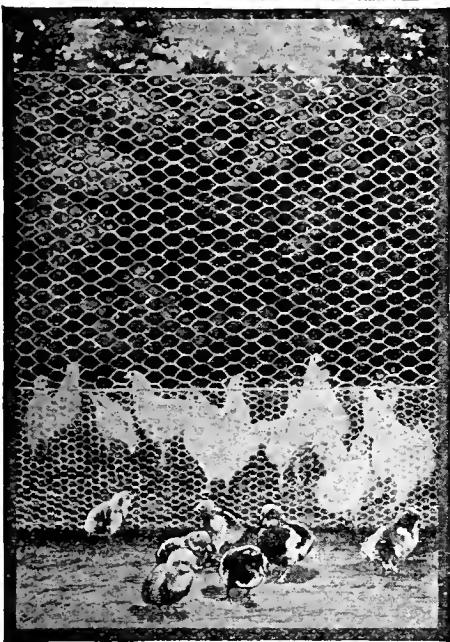
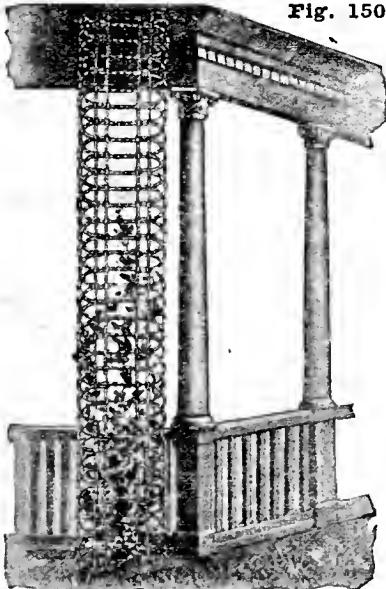
**SUPERIOR**  
BRAND

Fig. 152

## PRICE FOR ROLL OF 150 RUNNING FEET

No. 19 Gauge Wire	No. 20 Gauge Wire
1 ft. 2 in. mesh.....\$1.35	1 ft. 2 in. mesh.....\$1.15
1 1/2 ft. 2 in. mesh.....1.95	1 1/2 ft. 2 in. mesh.....1.65
2 ft. 2 in. mesh.....2.50	2 ft. 2 in. mesh.....2.15
2 1/2 ft. 2 in. mesh.....3.00	2 1/2 ft. 2 in. mesh.....2.55
3 ft. 2 in. mesh.....3.40	3 ft. 2 in. mesh.....2.90
4 ft. 2 in. mesh.....4.50	4 ft. 2 in. mesh.....3.85
5 ft. 2 in. mesh.....5.65	5 ft. 2 in. mesh.....4.85
6 ft. 2 in. mesh.....6.80	6 ft. 2 in. mesh.....5.80
1 ft. 1 in. mesh.....3.25	1 ft. 1 in. mesh.....2.70
1 1/2 ft. 1 in. mesh.....4.70	1 1/2 ft. 1 in. mesh.....3.85
2 ft. 1 in. mesh.....6.00	2 ft. 1 in. mesh.....4.95
2 1/2 ft. 1 in. mesh.....7.15	2 1/2 ft. 1 in. mesh.....5.85
3 ft. 1 in. mesh.....8.15	3 ft. 1 in. mesh.....6.70

Fig. 150



## Perfection Trellis

A most attractive and practical flower and vine trellis.

**No. 107 Style (single)**,  
18 in. wide....ft. 8 cts.

**No. 108 Style (double)**,  
18 in. wide....ft. 11 cts.

**No. 108 Style (double)**,  
24 in. wide....ft. 12 cts.

## The American Fence Tool

It is a hammer, staple and nail-puller, wire cutter and splicing tongs, combined. Wt., 3 lbs. Price, \$1.50.

## Bale Ties

CROSS HEAD

Fig. 151

We carry the 9-ft. No. 15 cross head ties in stock. We find this to be the most popular size, as it makes the most convenient bale of hay.

Per bundle of 250 wires, \$3.25.

## Sweet's Steel Posts

Superior Strength  
Attractive Appearance

Maximum Durability  
Unequalled Economy

A Special high carbon steel post of extreme rigidity, for all types of fence construction. The design of these posts is a flanged leg channel section which assures maximum strength.

Lugs are spaced 3 inches on centers. All upper lugs turned up except the two lower ones which are turned down to facilitate the drawing of fence to ground line. A substantial and popular method of attaching fence to a one-piece post.

These posts are heartily recommended for use with Field Fences of all types—Poultry, Garden, Arbor, Flower—for Farms, Residences, Estates.

**No. 3 (B-C)** 6 1/2 ft., approx. wt. 8.31 lbs.  
Price, 45 cts. each; 25 or more, 40 cts. each.

**No. 3 (B-C)** 7 1/2 ft. approx. wt. 9.69 lbs.  
Price, 55 cts. each; 25 or more, 50 cts. each.

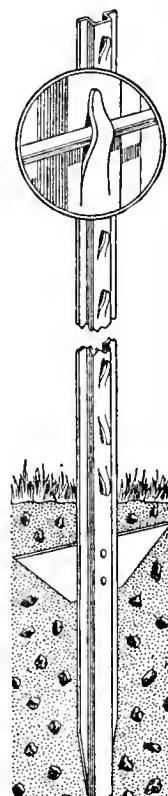
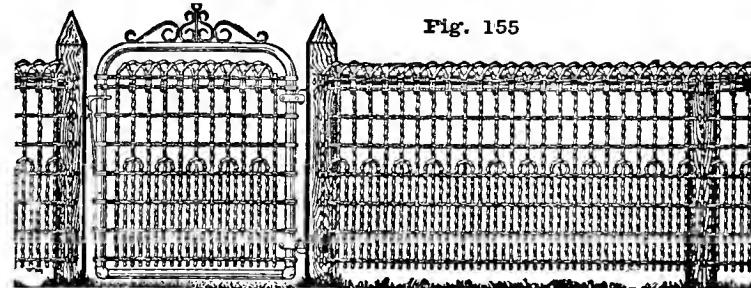


Fig. 154

## Ornamental Lawn Fence

Fig. 155



The above cut shows style 600 with the following specifications:

Upright or picket wires are No. 9, heavily galvanized, spaced 2 1/8 in. apart at top with an additional No. 9 galvanized picket interwoven so as to give an extra close spacing of 1 1/8 in. at the bottom.

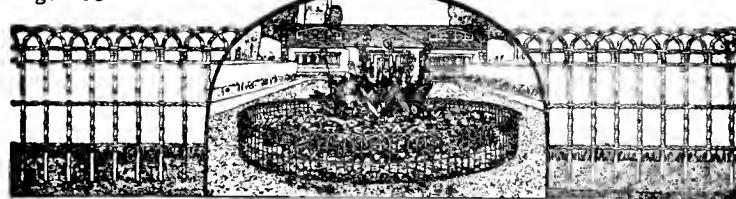
42 in., per ft., 15 cts.; 48 in., per ft., 18 cts.

We also carry style No. 100 with the following specifications:

Upright or picket wires are No. 9, heavily galvanized, spaced 2 1/8 in. apart. Cable line wires are No. 12 1/2, heavily galvanized, spaced 6 in. apart, except the two top cables which are 2 1/8 in. apart.

42 in., per ft., 13 cts.; 48 in., per ft., 14 cts.

Fig. 153



## Perfection Flower Bed Border

Fits any shape or size flower bed. No posts required. Bottom left straight to be inserted in the ground. Taken up in fall and used from year to year. 22-in. height, 10 cts. per ft.; 16-in. height, 9 cts. per ft.

Add postage for your zone.

# Stormtight

FOR USE ON ANY ROOF IN ANY WEATHER

## WHAT STORMTIGHT IS

Stormtight is the National Roof Protector. Stormtight will make any roof leak-proof. It is entirely different from the ordinary paints and compounds on the market. It is thick and elastic and therefore lasts for years.

Stormtight provides a one-piece coating over felt, composition, paper and metal roofs, which makes them water-proof and leak-proof. It is manufactured in black and maroon. Anyone can apply Stormtight. It is just poured and brushed flat. Once applied, Stormtight needs no re-treatment.

## WHAT STORMTIGHT DOES

Stormtight will stop leaks and keep roofs water-proof for years. Roof paints form a thin film which dries out, cracks and permits leaks. Stormtight forms a heavy film which does not dry out, does not crack, does not leak.

## WHY STORMTIGHT PROTECTS

Stormtight is not affected by heat, cold, rain or snow. It will not run, sag or dry out and crack. It remains elastic, expands and contracts and is impervious because of its special water and weather resisting ingredients. Stormtight can be applied in any weather.



"Just Pour it on, and Brush It Flat"

### Stormtight—Liquid

	Black Per gal.	Maroon Per gal.
Drums, 64 gals.	\$1.50	\$2.00
Drums, 38 gals.	1.60	2.10
Drums, 10 gals.	1.80	2.30
Cans, 5 gals. (2 per case)	1.90	2.40
Cans, 1 gal. (6 per case)	2.00	2.50

### Stormtight—Plastic

	Black Per lb.	Maroon Per lb.	Red and Green Per lb.
Drums, 600 lbs.	\$0.15	\$0.20	\$0.30
Drums, 375 lbs.	.16	.21	.31
Drums, 100 lbs.	.18	.23	.33
Buckets, 50 lbs.	.19	.24	.34
Buckets, 25 lbs.	.20	.25	.35
Cans, 10 lbs. (6 to case)	.21	.26	.36
Cans, 5 lbs. (12 to case)	.22	.27	.37
Cans, 1 lb. (24 to case)	.25	.30	.40



Purveyors to  
HIS MAJESTY, THE DOG

### "Old Trusty"

**ALL TERRIER FOOD**  
A graduated food of even balance, carefully mixed, not medicated or sweetened. Relished by dogs of all breeds.  
100 lbs., \$8.75; 50 lbs., \$4.38; 25 lbs., \$2.25;  
10 lbs., \$1.25.

**"TOP NOTCH"**  
A coarse granulated food for large breeds. It has met with great success in many of the Hunt Clubs and sporting dog kennels.  
100 lbs., \$8.75; 50 lbs., \$4.38; 25 lbs., \$2.25;  
10 lbs., \$1.25.

**"TIT BITS"**  
A granulated food of the very highest order, without a doubt the supreme in dog foods. Mixed with "VI-TI" tablets we cannot conceive of a more perfect food for bitches in whelp or dogs off their feed.  
100 lbs., \$9.75; 50 lbs., \$4.88; 25 lbs., \$2.50;  
10 lbs., \$1.50.

Prices subject to change without notice.



As Certain-teed goes up, roofing costs come down. Certain-teed costs less to buy and less to lay than any other type of good roofing. It reduces roof maintenance to practically nothing.

Certain-teed reduces labor costs, because it is easily and quickly laid. It reduces roof renewals, because it is proof against most forms of attack which shorten the life of other types of roofing. It is spark-proof and fire-resisting.

Certain-teed Roofing is guaranteed 5, 10 or 15 years, according to thickness. You will save money when you buy Certain-teed. See us before you buy.

1 Ply Light, about 35 lbs.....	Market Price
2 Ply Medium, about 45 lbs.....	Market Price
3 Ply Heavy, about 55 lbs.....	Market Price

### Guard Roofing

1 Ply Light, about 35 lbs.....	Market Price
2 Ply Medium, about 45 lbs.....	Market Price
3 Ply Heavy, about 55 lbs.....	Market Price

Each roll lays 100 square feet and contains nails, cement, etc.

### Corporal Roofing

1 Ply Light, about 35 lbs.....	Market Price
2 Ply Medium, about 45 lbs.....	Market Price
3 Ply Heavy, about 55 lbs.....	Market Price

### Certain-Teed, Slate Surface

Green, Red or Blue Black, about 85 lbs..... Market Price

### Major, Slate Surface Roofing

Green, Red or Blue Black, 75-80 lbs..... Market Price

### Tarred Felt

No. 2—Specify small or large roll..... Market Price

### Asphalt Sheathing

No. 30—30-lb. rolls..... Market Price

### Certain-Teed Sheathing

No. 25—25-lb. rolls..... Market Price

### PUPPY MEAL

A fine granulated food, well balanced, not a pasty meal. Mixed with "Old Trusty VI-TI" finer and stronger puppies will result. Vigorous puppies mean less disease.

100 lbs., \$8.75; 50 lbs., \$4.38; 25 lbs., \$2.25;  
10 lbs., \$1.25.

### DOG CAKES (Whole or Broken)

100 lbs., \$8.50; 50 lbs., \$4.25; 25 lbs., \$2.20;  
10 lbs., \$1.25.

### PUPPY BISCUITS

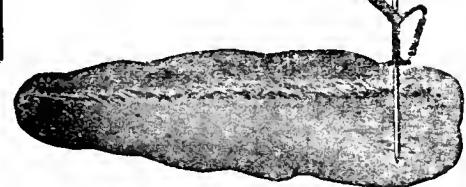
100 lbs., \$8.75; 50 lbs., \$4.38; 25 lbs., \$2.25;  
10 lbs., \$1.25.

### VI-TI TABLETS

Large tin, \$1.00.

**Wright's Animal Tether**

The cut shows the advantage of this invention, which is designed to obviate the danger of horses and other animals becoming entangled in the rope with which they are fastened. It consists of a pole about ten feet in length, connected with an upright bar, upon which it turns in any direction. The animal is fastened to the end of this pole by a rope, which is kept taut above his head by means of a spring at the base of the pole; this keeps the pole high in the air, until in reaching for the feed the animal pulls it down, thus at all times keeping the rope from under his feet.



Price ..... \$6.00

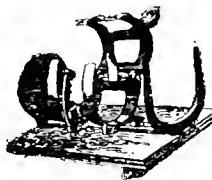
Fig. 158

**Asparagus Buncher**

Price, \$4.50

Mailing weight, 5 lbs.

Fig. 163

**Louden Barn Equipment**

Louden Barn Equipment has the reputation of being Quality Equipment for more than sixty years. Thousands of barns in this and in other countries have been fitted with Louden Equipments, not as a result of special advertising nor a superior selling organization, but because of the sterling quality of the Louden goods.

Each

No. 812	Double-Post Cow Stall.....	\$14.30
No. 861	Tubular Steel Stanchion with Chain Guide	4.60
No. 937	Wood Lined Steel Stanchion.....	4.60
No. 862	U Bar Steel Stanchion.....	3.75
No. 863	U Bar Wood Lined Steel Stanchion.....	4.35
No. 1442	Closed Top Adj. Steel Stanchion.....	3.15
No. A699	Stanchion Fastenings for Wood.....	.15
No. 1523	Master-Made Water Bowl Complete.....	4.70
No. 1439	Economy Water Bowl Complete.....	3.30
No. 828	Emanipator Litter Carrier and Tub.....	60.05

Price on other Louden Equipment upon request.

**DE LAVAL SEPARATORS**

For both hand and power. Europa Series table models.

No. 1	Capacity 150 lbs. per hr.....	\$ 30.00
No. 3	Capacity 300 lbs. per hr.....	35.00
With high iron stand, extra.....		10.00
Golden "3,000,000" Series		
No. 10	Capacity 350 lbs. per hr.....	92.50
No. 12	Capacity 500 lbs. per hr.....	105.00
No. 16	Capacity 750 lbs. per hr.....	123.75
No. 17	Capacity 1000 lbs. per hr.....	142.50
Electric motors, alternating current, for Golden "3,000,000" Series.....		50.00

See Inside Front Cover of Catalogue for Parcel Post Rates.

**Close Mesh Wire Tree Guards**

will protect young trees from the ravages of mice and rabbits.

Diam.	Height	Dos.	100
4"	15"	\$1.25	\$7.82
4"	18"	1.50	9.35
6"	15"	1.80	11.75
6"	18"	2.15	14.00

Diam.	Height	500 per 100	1,000 per 100
4"	15"	\$7.70	\$6.87
4"	18"	8.65	8.25
6"	15"	10.75	10.30
6"	18"	12.90	12.40

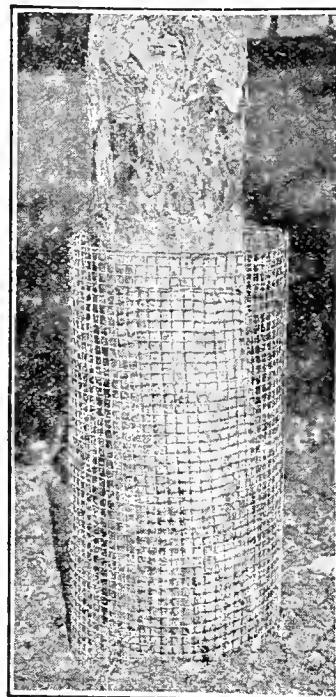


Fig. 159

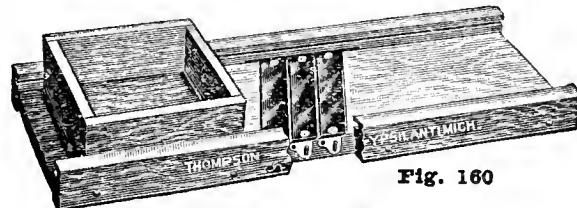
**Kraut Cutters**

Fig. 160

**PRICE LIST**

Number	Knives	Size	Each
55E	3	9x28	\$2.00
65E	3	11x30	3.00

**Fairbanks Portable Platform Scales****Dairy Scales**

Graduated in 1 oz. Weighs 30 lbs. Made especially for dairymen. Has adjustment for taking out weight of pail.

Price, \$7.00

Weight 4 lbs.

Most practical and convenient scale for many purposes.

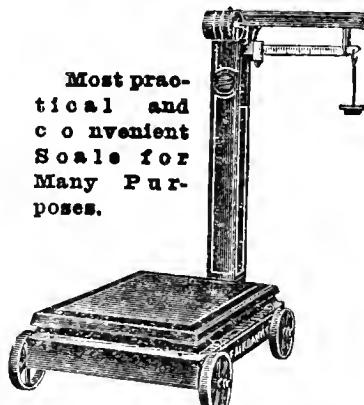


Fig. 162

This type of Portable Platform Scale is one of the most efficient for general use and may be furnished either with or without wheels. It is equipped with arrow-tip single beam having a sliding poise with set-screw, all of brass.

No.	Capacity	Beam	Platform	Price
1124	1,000 lbs.	100x1/2 lbs.	18x27 in.	\$21.50
1128	500 lbs.	50x1/4 lbs.	16x25 in.	18.50



Fig. 167

**CALF CORDIAL.** Sure cure for scours and other similar complaints. 50 cts., mailing weight 2 lbs.

**WYANDOTTE DAIRYMAN'S CLEANER.** An absolute necessity in every dairy. A powder, easy to use, and recommended by everyone that ever tried it. Price: 5-lb. bag, 45 cts., 80-lb. keg \$4.95, 280-lb. barrel \$13.75.

### Moore Bros. "Purpul" Medicated Wax Teat Dilators

For obstructions, spiders, sores on end of teat, hard milkers, etc.  
1 doz. Dilators 25c, 5 doz. Dilators \$1.00  
Postpaid.

### Dr. Naylor's Medicated Teat Dilators

For the treatment of spider, obstruction, hard milkers, cut and bruised teats, etc.

These dilators are not rubber or wax, but are made of an absorbent texture. They heal the teat and keep it open. The dilators are sterilized and packed in the medicated ointment.

1 doz. Dilators in Jar Ointment....\$0.50  
Postage 8c.

3 doz. Dilators in Jar Ointment....\$1.00  
Postage 10c.

### Dr. Naylor's Liquid Udder Balm

This Udder Balm being a liquid is more penetrating, loosens up the tissues and removes the inflammation. Is much easier and cleaner to use than an ointment.

Price \$1.00; Mailing Weight 2 lbs.

### Dr. Naylor's Cleralac

This powder is very effective in the treatment of Garget and Stringy milk.

Price 65c; Mailing Weight 2 lbs.

### Dr. Naylor's Stop-A-Leak

A treatment for cows that leak milk. This condition occurs in some cows, at any or all times, and in others when the udder is over-distended during their best milk producing period. These cases are successfully treated with Stop-A-Leak.

Price \$1.00; Postage 10c.

**KOW-KARE.** Prevents and cures abortion and barrenness. Increases the flow of milk. It is for cows only. 65 cts., mailing weight 2 lbs.; \$1.25, mailing weight 4 lbs.

**BAG BALM.** Cures caked bags and sore teats. Should be in every stable. 60 cts., weight 1 lb.

### Warriner's Patent Chain Cattle Stanchions

These Fasteners are in use in a large number of stables and give universal satisfaction. The cut shows the device: a short chain secures the fastener to the top beam so that it suspends 1 1/4 in. clear of the bottom sill. It is also fastened to the bottom sill by a chain to allow it a free and easy motion and rotation, giving the cattle freedom, yet is securely fastened. It keeps them clean and gives liberty of action. Price, each, \$2.75. Doz. lots, \$30.00.

Fig. 171



### Cast Iron Feed Box



Fig. 172

Price \$2.75; Weight 31 lbs.

### Cattle and Horse Salt Feeders



Fig. 173

This method of feeding pure salt to stock has been adopted in the largest stables and grows in favor daily. Salt brick, 25 cts. each; weight 5 lbs. each; \$2.50 per doz. Salt brick holders, 50 cts. Weight 3 lbs.

### Roto Salt

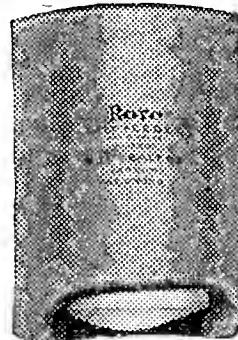


Fig. 174

### Bricks and Holders

Consists of round container with round salt which automatically feeds down as used.

Salt 25c each. Weight 5 lbs.  
Holder 50c. Weight 6 lbs.

### Corner Rack

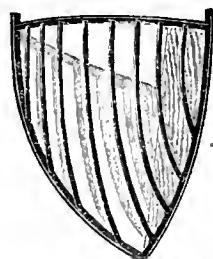


Fig. 168

Price, cast iron.....\$3.75  
Price, wrought iron.....3.25

### The Banner Root and Vegetable Cutter

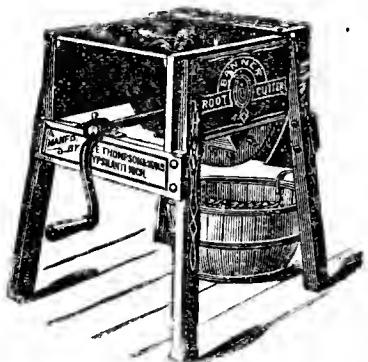


Fig. 169

The "Banner" root cutter contains features found in no other machine. It has a self-feeder; separates the dirt from the cut feed, and leaves the cut food in such condition that the stock cannot choke.

No. 20—For hand power.....\$21.50  
No. 16—Hand and power.....35.00



Fig. 170

No. 7

For Poultry

Hand power.....\$8.75

## Star Adjustable Stanchions

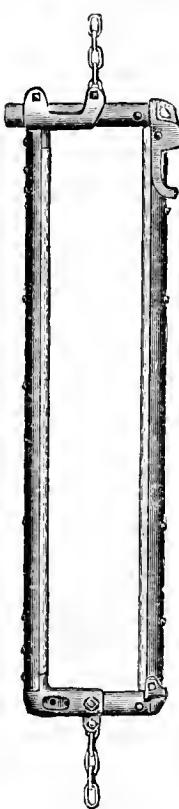


Fig. 175

No. 486. Giant wood lined with double lock and guide. Each ..... \$4.85

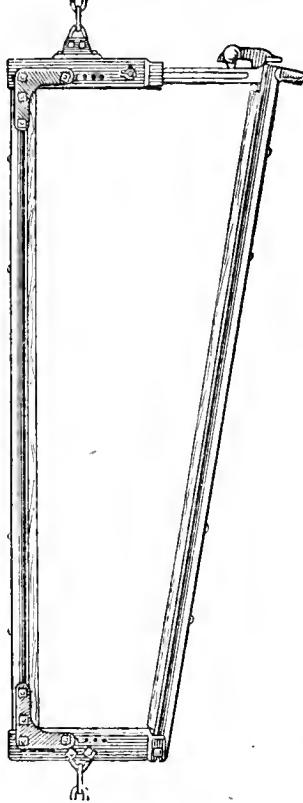


Fig. 176

No. 1285W. Wood lined with single lock and guide. Each ..... \$3.80

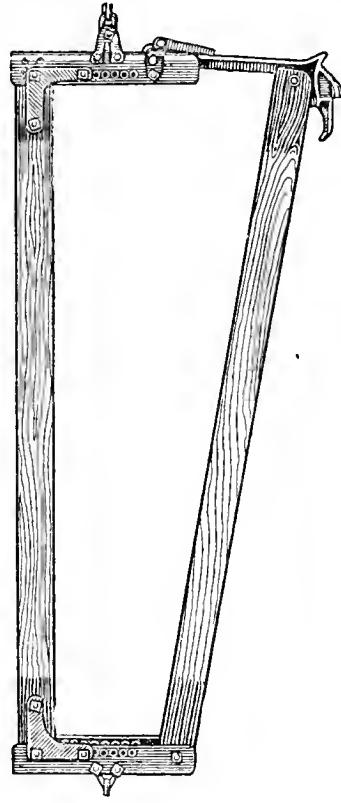


Fig. 177

No. 452. Have maple uprights, double lock and guide. Each ..... \$2.95

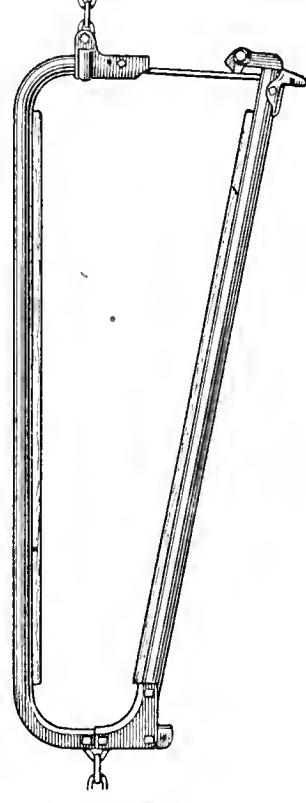


Fig. 178

No. 1211W. Wood lined with single lock and guide. Each ..... \$3.00

No. 1211. Unlined all steel with single lock and guide. Each ..... \$2.55

Stanchion fastenings extra. Specify for wood or cement.

## No. 10 Star Unit Stall

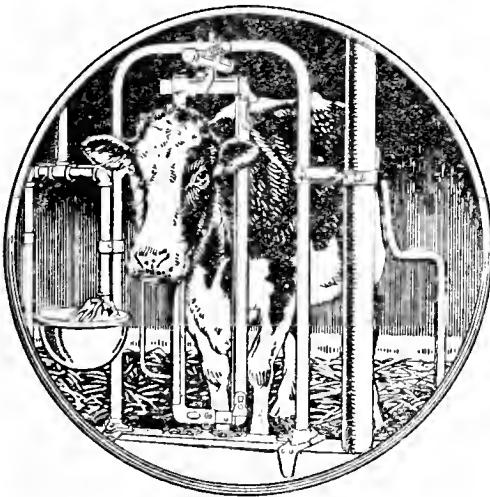


Fig. 179

Insures the profit of careful breeding and feeding. Protects cow from crowding and trampling. No cracks, dark corners, dirt catchers or dead air pockets. Eliminates accidents and diseases and gives cow maximum comfort that means more milk and more profit. Alignment device keeps cow in line at gutter.

Rust shield prevents partitions rusting off at floor line. Many other valuable features. Widths 3 ft., 3 ft. 3 in., 3 ft. 4 in., 3 ft. 6 in.

Finished Grey Enamel. Each \$15.20.

## No. 333 Star L. C.

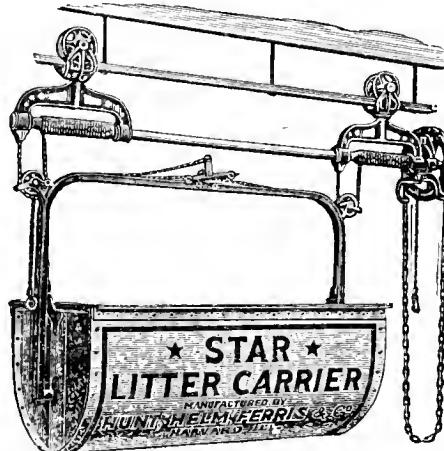


Fig. 180

The No. 333 Litter Carrier. Quickest and easiest to raise and lower. Runs easy. Never in the way, always on the job.

Pays for itself in a year or two.

Hoisting shaft is a simple windlass without cogs or gears. Drive wheel bolted to shaft.

No. 6 Capacity 10 bushel.

Price ..... \$49.00

No. 8 Capacity 12 bushel.

Price ..... 51.00

## No. 1178 Star Water Bowl

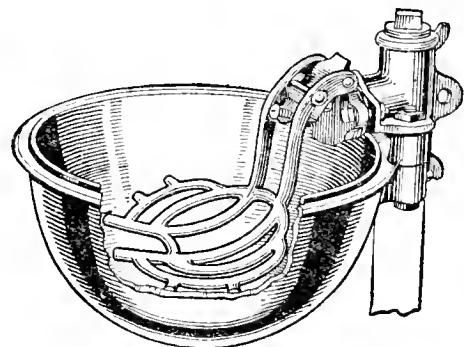


Fig. 181

Puts milk in the pail and money in the pocket. Cow drinks more water and gives 20% to 30% more milk. Water comes when the cow rests her chin on the valve lever. Valve snaps shut when she stops drinking. Simple valve; all brass; can't rust, corrode or clog. Individual pressure control on each bowl. Round smooth bowl. Held by heavy bolts. Can't be broken, bent, dented, or worked loose. Working parts are all outside. Valve lever lifts clear out of the way so bowl can be cleaned without taking it off.

No. 1178 With bracket for wood or any kind of steel stall. As illustrated ..... \$3.10

No. 1177 With sanitary aluminum lining ..... 4.00

# New England Distributors for Hinman Milkers and Parts

## Hinman Electric Milker

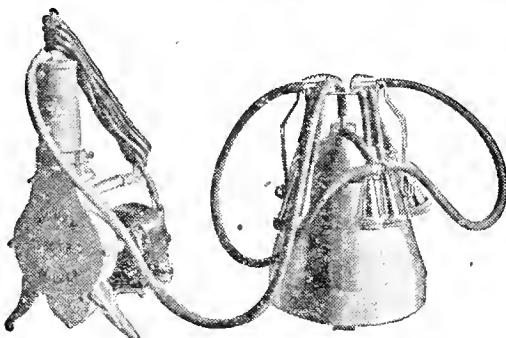


Fig. 182

A complete milking equipment, no installation. Operates from any electric light circuit, either direct or alternating current. It is a light portable unit, containing the famous Hinman designed pump with relief valve. All moving parts are enclosed and all that is necessary to do is to attach plug, turn on current and milk. Let us give a demonstration.

Hinman Electric Two Cow Milker.....\$128.00

## Andis Electric Animal Clipper

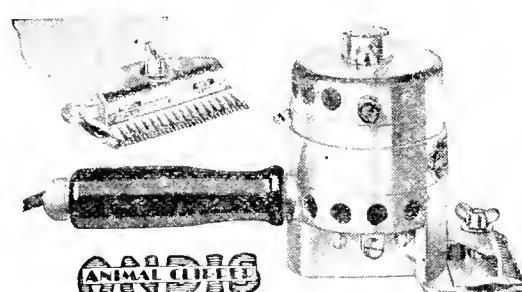


Fig. 184

The ANDIS Electric ANIMAL clipper was developed at the request of many dairymen and breeders of show stock. The result of seeing in operation ANDIS barber clippers which are recognized as the standard of perfection by the barber and allied trades.

Price .....\$22.00  
Weight, 4 lbs.

## The Rice Calf Weaner

Small 65 cts., medium 95 cts., large \$1.25. Weight each, 1 lb.

## Stewart Clipmaster Animal Clipper

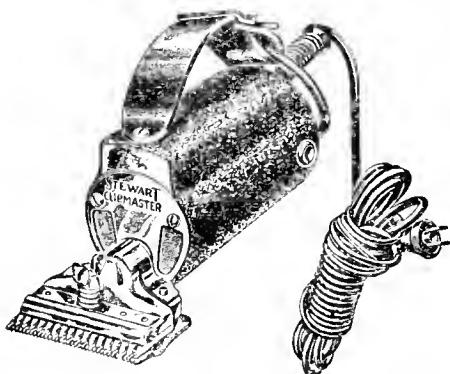


Fig. 186

The Clipmaster is quiet running and powerful and it's the world's most economical electric animal clipper, both in first cost and upkeep. Costs only one-quarter of a cent per hour to use. Mailing weight, 7 lbs.

J2 Strap Handle .....\$18.50  
J1 Aluminum Handle (not shown).... 19.50

## Hinman Easiest to Clean

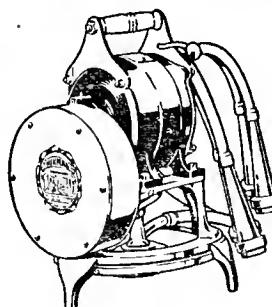


Fig. 183

Entirely different, a new milking machine that will sharply influence the future of the entire milking machine industry. New in conception, new in design, new in basically patented fundamentals. This new "easiest to clean Hinman" is adapted to a dairy of a hundred cows, as well as the dairy of two cows. The greatest advancement ever made in the milking machine industry.

Price .....\$108.00

## Varnished Cylinder Churns

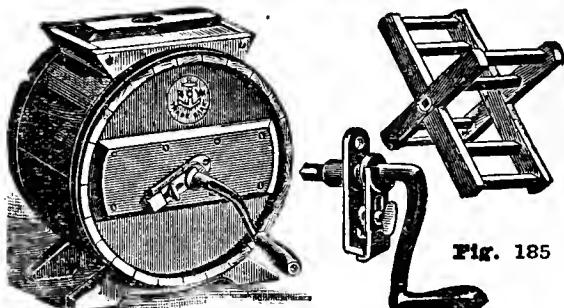


Fig. 185

Designed for those having a small dairy

No. 0, capacity 1 gallon.	Wgt. 12 lbs.	\$3.75
No. 1, capacity 2 gallon.	Wgt. 13 lbs.	4.25
No. 2, capacity 4 gallon.	Wgt. 16 lbs.	4.85
No. 3, capacity 6 gallon.	Wgt. 18 lbs.	5.50
No. 4, capacity 8 gallon.	Wgt. 20 lbs.	6.50

## Hinman Groomer

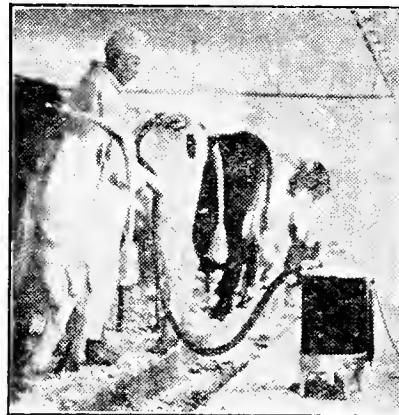


Fig. 187

Here is a New, Quick and Convenient Way of taking all that dirt from your cows, bagging it ready for removal from the stable. Contrast this with hand grooming which simply removes only top dirt and broadcasts it over other animals. Get more milk with less bacteria by using the Hinman Groomer—in use in hundreds of well known dairies and stables.

Hinman Senior Groomer.....\$130.00  
Hinman Junior Groomer..... 78.00

## Flexible Shaft Hand Power Clipper

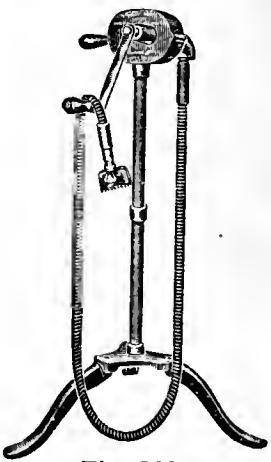


Fig. 188

No stable is complete without one of these outfits for clipping cattle or horses. Inexpensive, easily operated and indispensable on the farm. Insures sanitary conditions of making grade A milk.

Weight, 15 lbs. Price, \$14.00  
Top plate, weight, 1 lb. 1.50  
Bottom plate, weight 1 lb. 2.00

All prices in this catalogue are subject to change without notice.

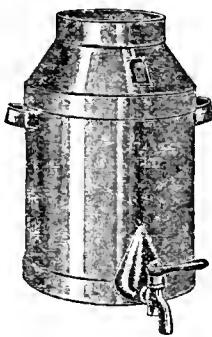


Fig. 189

Heavy Tin Mixing Can with removable strainer hoop and faucet; 6, 8 and 10 can.  
 Price  
 6 can..... \$16.00  
 8 can..... 16.50  
 10 can..... 17.00

## 12-Quart Strainer



Fig. 196  
(Perforated Bottom)

Top diameter 12½-in., neck 5½-in. Uses 6 or 6½-in. Cotton Discs. Instead of a loose perforated disc to lay on the bottom, this Strainer has the bottom, itself perforated same as the disc. It does away with one loose part and strengthens the bottom. Equipped with one Convex Perforated tinned disc and a spring wire clip. Mailing weight 6 lbs. Price, \$2.25.

## Cotton Discs

J & J.—6-in. 300 to carton. Mailing weight, 3 lbs. Price, \$1.15.  
 6½ in. Price, \$1.35.

## Buckley's Patent Watering Device

For Watering Stock in Stables

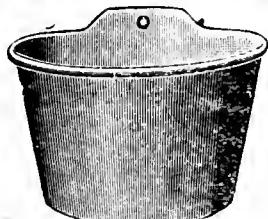


Fig. 197

Water where cattle can get it at any time during the day or night is a necessity in every first-class stable. With the Buckley Basins the water is always there and at the proper temperature.

Not so high priced as the Star. Will answer every requirement. Thousands sold. Threaded for ¼-in. pipe.

Price, each, \$2.10; per doz., \$24.00.

## The Ideal Milk Cooler

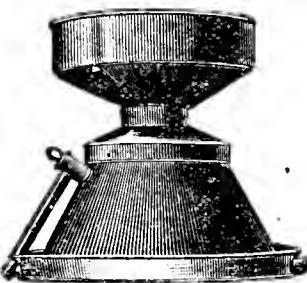


Fig. 190

The Ideal Milk Cooler and Aerator does what no other cooler does, namely, thoroughly cools the milk and at the same time aerates it perfectly, so that it is ready to ship or peddle at once. No time is lost in stirring morning's milk and getting it ready for customers, as it is cooled as fast as milked.

No. 2. Suitable for 10 to 15 cows.  
 Price, \$10.00.

No. 3. Suitable for 25 to 40 cows.  
 Price, \$12.00.

## Milk Cans

Hi - Grade Cans with wood Bungs.

No. 1—8 qt.  
 Heavy \$1.75

No. 1—10 qt.  
 Heavy \$1.95

No. 3—8 qt.  
 Light \$1.60

No. 3—10 qt.  
 Light \$1.80  
 Mailing weight, each 8 lbs.



Fig. 191

## Milk Kettles

(Not Shown)  
 Bail Handle and Tin Top.  
 Mailing weight

4 qt.....	4 lbs.....	\$1.10
6 qt.....	4 lbs.....	1.50
8 qt.....	6 lbs.....	1.75

## Savory Hooded Sanitary Milk Pail



Steel Clad Pattern. Heavy retinned wire bail. Hood is convex design and has approved 9½x5-in. opening. 15-quart. Mailing weight 15 lbs.

Price, \$2.50.

Fig. 193

## Gem Combination Milk Bucket

## With Removable Strainer

It has no equal in its simplicity. Made of the best IX tin, with Steel Strainer Frame. The Gem Combination Milk Bucket can be used for milk with strainer, or the strainer can be removed by a single turn of the latch and the bucket used for any other purpose. The Strainer is constructed of Steel with Fine Brass Wire Cloth and can be readily converted into a cloth or muslin strainer by simply covering the frame with the cloth and inserting the frame in place.



Fig. 194

Prices, 10 quarts, each, \$1.25; 12 quarts, each, \$1.40; 14 quarts, each, \$1.65. Weight, 3 lbs.

## Quality Milk Strainer Pail

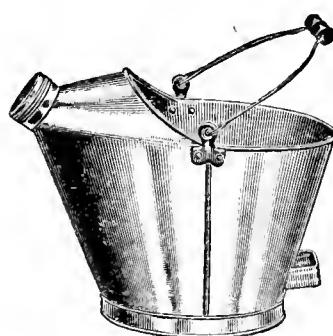


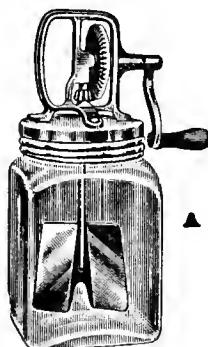
Fig. 198

Screw Spout, made of extra heavy tin, easy to clean and keep in repair. Weight, 6 lbs. Price, \$2.75.

**A—GLASS CHURN.**

This churn is desired for farm use and is indispensable in the kitchen. It whips cream, beats eggs, makes butter, has a lot of other uses and is always handy.

2 quart, weight 7 lbs. .... \$2.25      4 quart, weight 10 lbs. .... \$3.00  
Extra glasses, 75c and \$1.25.



Universal Bottles



B

**B—MILK BOTTLES.**

Universal Super-Strength Milk Bottles. Superior quality—dependable service. Universal Bottles excel in performance.

	Doz.	Gross
1 quart	.....	\$8.00
1 pint	.....	6.25
1/2 pint	.....	5.25

Prices on lettered ware quoted on request.

**D—BOTTLE BRUSHES.** Add for postage 5c each.

No. 305. 10 in. Hickory Handle Bristle Brush, 45c.

No. 611. Grey Hair, 60c.

No. 309. Machine brush 5 in. Grey Hair, handle tapered, 60c.



H



I



K

**E—LEATHER HALTERS.**

No. 11 Russet Cow Halter, 1 1/4-inch, sewed and riveted. Weight, 2 lbs. .... \$1.50

No. 2 Russet Horse Halter, 1-inch, riveted. Weight, 2 lbs. .... 1.75

No. 5 Russet Horse Halter, 1 1/4-inch, sewed and riveted. Weight, 4 lbs. .... 2.75

**F—8 BAR, SOLID BACK, ENAMELED CURRY COMB.**

Price, 30c. Add postage 5c each.

**G—REFORM CURRY COMB.**

Three rows of crimped oval steel cleaners.

Price 25c. Add postage 5c each.

**H—BUTTER BOWLS.**

Made of polished maple.

13 inch.	Mailing weight	3 lbs.	.....	\$0.60
15 inch.	Mailing weight	4 lbs.	.....	.75
17 inch.	Mailing weight	7 lbs.	.....	1.25
19 inch.	Mailing weight	10 lbs.	.....	1.75

**I—LARGE BUTTER SPAT.**

Price, 25c. Postage 5c extra.

**SMALL BUTTER SPAT.**

Price, 15c. Postage 5c extra.

**K—CORRUGATED BUTTER SPAT.**

Price, 15c. Postage 5c extra.

**L—BUTTER PAPER.**

This parchment butter paper is used by most of the butter packers. Made of very strong fibre and will stand any amount of hard use.

Cut 8x11 in. for 1/2-lb. molds, 30c per lb.

Cut 9x12 in., 30c per lb.



No. 611



D

No. 309

**M—BOTTLE CAPS.****No. 305**

Stock printed designs.

Per box of 1,000. Weight, 3 lbs. .... \$0.50

Per box of 5,000. Weight, 15 lbs. .... 2.25

Pull Caps with wires. Packed in tubes of 500.

Per 1,000. Weight, 4 lbs. .... .60

Prices on special printed caps packed in tubes or bulk for 50,000 or more quoted on request.

**N—BLANCHARD'S BUTTER MOLDS.**

Initial engraved, 25c extra per initial. Weight 1 lb.

One-half pound .... \$0.85

One pound .... 1.00

Two pounds .... 1.25

**O—BOTTLE CARRIERS.**

Flat Wire.

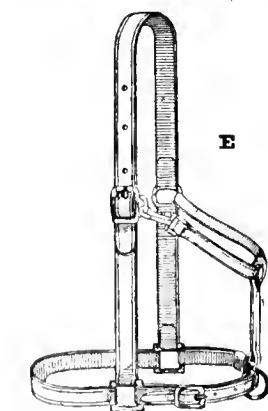
6 1-qt. Bottle Carrier, weight 5 lbs. .... \$1.50

8 1-qt. Bottle Carrier, weight 6 lbs. .... 2.00

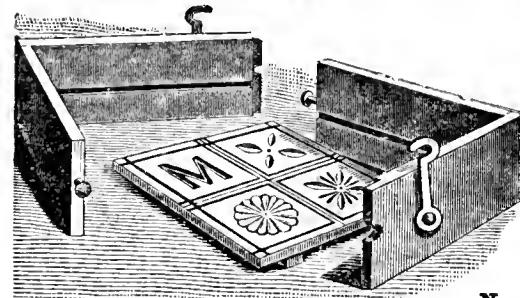
Round Wire.

6 1-qt. Bottle Carrier, weight 5 lbs. .... 1.25

Add postage for your zone. See inside of front cover.



E



N



O



G



F

All prices in this catalogue are subject to change without notice.

# CYANOGENS

REG. U. S. PAT. OFF.

The ideal fumigant for greenhouses is CYANOGENS G—Fumigant.

CYANOGENS A—DUST is certain death to woodchucks, rats, moles and ants.

For Woodchucks: Place a heaping tablespoonful well into the burrow and close carefully.

Rats: Plug all rat holes that can be located except one and blow in A—Dust with a Cyanogas Duster. Plug remaining hole.

Moles: Open runway every five feet and place in heaping tablespoonful.

#### PRICES

1-lb. tin, A	only \$ 0.75
5-lb. tin	..... 3.00
25-lb. tin	..... 10.00

Fig. 199

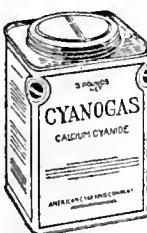


Fig. 199

## STIM-U-PLANT

#### PLANT STIMULANT TABLET

is rich in plant food, containing 11 per cent Nitrogen, 12 per cent Phosphoric Acid and 16 per cent Potash, odorless and clean.

Not to be thrown broadcast, but put at feeder roots of individual plants, trees, shrubs, etc.! There is no waste, you feed the plants that need it. Increases production, brightens color, improves quality. Simply insert a tablet in the soil near each plant (1 foot apart if in rows) once or twice during season. Or, dissolving four tablets per gallon of water is less trouble and gives better results than the objectionable manure water. Complete directions with every package. Price, postpaid: 30 tablets, 25c; 100 size, 75c; 1,000 tablets, in bucket, \$3.50.



## Ants Destroyed

New method "gets" them at their source—safe, permanent, effective.

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup. The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permanent, effective and safe protection is insured from these annoying pests. Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4-oz. bottles, 45c; pints, 95c; gallons, \$3.75.

## Antrol

The National Ant Control

## Stanley's Crow Repellant

#### What It Does

It rids your Corn Crop of Crows and other corn pulling birds, and animal pests, such as Moles, Gophers, Woodchucks, Squirrels, etc.

Saves loss of seed and labor of re-planting.

Positively will not clog any planter.

Aids and hastens germination of seed corn.

Protects seed from rotting in the ground.

Insures larger yield per acre.

Is non-poisonous and will not injure the seed.

Will not kill birds or animals, but will keep them away and prevent destruction by them.

Has been used successfully by experienced corn growers for over ten years.

Large can, enough for two bushels of seed corn..... \$1.00

Small can, enough for one bushel. .60

Mailing weight each 2 lbs.

## "Nico-Fume" Powder

Every florist knows that the battle with insects is continuous. Numerous insect pests destroy profits, but they can be controlled by "NICO-FUME" Powder. It furnishes safe, dependable and effective protection to greenhouse crops. Many florists prefer a tobacco powder fumigant. "NICO-FUME"

Powder consists of tobacco powder impregnated with high strength nicotine and is guaranteed to contain not less than 12½% of nicotine by weight. Use a 2½-inch flower pot for a measure. Pour the powder on the walk or bench in a loose pile and light at either end; or both ends for quick fumigation. Use one 2½-inch pot full (about four ounces) to 6,000 to 8,000 cubic feet of air space.

Fig. 201



#### Prices

1-lb. tin	.....	\$1.00
5-lb. tin	.....	3.50
10-lb. tin	.....	6.15

## "Nico-Fume" Liquid

(Nicotine Solution)

Has the advantage of being suitable BOTH for Spraying and for Fumigating Purposes.

"Nico-Fume" Liquid is packed in screw-top cans, and is sold in the following sizes:

Can containing 8 lbs., price.....	\$10.85
Can containing 4 lbs., price.....	5.85
Can containing 1 lb.....	2.00



Fig. 200

½-pint can, enough for 1 bushel. \$0.50

1-pint can, enough for 2 bushels. .75

1-quart can, enough for 4 bushels 1.25

Postage, 10 cts. extra

## Crow-Fez

Crow-Fez is a combination of many ingredients for use on seed corn, so as to give the surest protection against corn pests. It protects corn during the period when it is most easily damaged, by ridding your fields of crows and other corn pulling birds and rodents. It also assists in preventing seed rot and aids and hastens germination, saving seed loss and labor of re-planting.

## Quickly Kills Garden Pests

Science Provides  
New Safe Methods  
That Does the Work  
Without Fuss



Cutworms, Sowbugs, Grasshoppers, Slugs, Snails, Earwigs, Etc., Are Exterminated

Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. These pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nurserymen. Prices—1-lb. packages, 45c; 3-lb. packages, 95c; 15-lb. bags, \$3.50; 50-lb. bags, \$9.50.



## Snarol

The National Pest Control



## Myers Self-Oiling Junior Spray Outfit

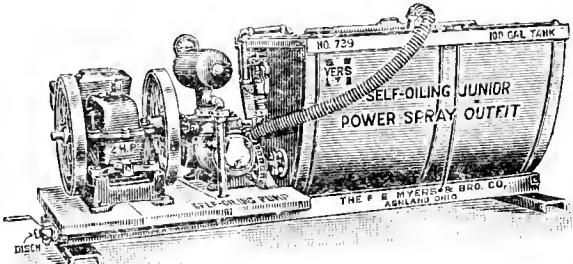


Fig. 202

Fitted complete with 2 H.P. engine and self-oiling pump. Equipped with one spray gun, 50 feet of  $\frac{1}{2}$ -inch high pressure hose, single cutoff for discharge lines, pressure gauge, rotary agitator, pressure regulating valve, strainer and suction hose.

No. 739 Myers Self-Oiling Junior Spray Outfit with 100-gal. Cypress Tank equipped as above. Price ..... \$197.00

5% Discount for Cash

**The Myers White-wash, Cold Water Painting Machine and General Purpose Sprayer**

The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable and is held securely in place by two thumb nuts, one on each side, which hold the cover tight and prevent spilling or splashing of the liquid. Holds 7 gallons.

Price, \$12.50



Fig. 204

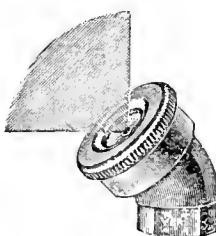


Fig. 205

Fembro 45 degree nozzle. 80 cts. or 75 cts., Post paid.



Fig. 206

Fembro nozzle. 70 cts. or 75 cts., Postpaid.

## Bordeaux Special

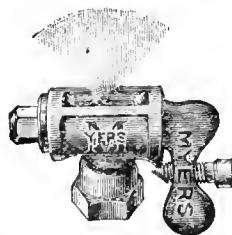


Fig. 207

This nozzle will throw a fine fan-shaped spray and will readily free itself should it become clogged by turning cock-handle. It will throw a solid stream or it may be shut off altogether if desired. Price, \$1.00 Weight, 1 lb.

Add postage for your zone. See inside of front cover.

## Myers Du-All Junior Power Sprayer

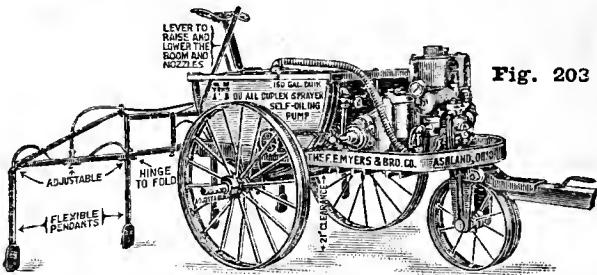


Fig. 203

This sprayer is particularly adapted to be used by the average farmer who raises fruit and potatoes or other rowed crops, as the one rig serves all purposes. "Du-All": To use as an orchard sprayer, remove the boom. Recommended as a simple, thoroughly rugged and dependable outfit, from which all of the ordinary weaknesses usually found in cart sprayers have been removed.

No. 1089 Myers Du-All Junior Sprayer equipped with 150-gallon Cypress Tank, Self-Oiling Double Acting Spray Pump with Pressure Gauge, Pressure Regulating Valve, Rotary Agitator, Sediment Chamber, Suction Hose and Strainer, Myers Perfect 4-Row Spray Boom with 12 Nozzles, Screen in Tank Opening, Doubletree and Neck Yoke.

Price as above ..... \$325.00

For Orchard Spraying: One Myers Spray Gun and 50 ft. of  $\frac{1}{2}$ -inch High Pressure Hose with Fittings, add to above price ..... 22.25

No. 788 Myers Du-All Junior Sprayer for Orchard Work Only ..... 295.00

5% Discount for Cash

## Brown's Auto Spray Pump



Fig. 208

A four-gallon compressed air sprayer with screw locking cap and strongly reinforced corrugated tank. Will handle all agricultural disinfectants, insecticides, fly oils, stock dips, etc.

Brown's No. 9B. 4-gal. brass tank ..... \$9.75

Brown's No. 9D. 4-gal. galv. tank ..... 6.65  
Shipping weights, 11 lbs.

Brown's No. 50B. 3-gal. brass tank ..... 8.65

Brown's No. 50D. 3-gal. galv. tank ..... 5.70  
Shipping weight, 8 lbs.

**The Myers Compressed Air Sprayer**

The tank is made of heavy galvanized iron or brass. The side walls are double seamed, riveted and soldered. The top and bottom are extra heavy material with flanged edge over which the side walls are turned and thoroughly soldered. Has  $1\frac{1}{4}$ -inch brass tube cylinder. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut.

The 45 degree nozzle and 20-inch brass extension furnished without extra charge are so constructed that the nozzle can be attached to the end of the brass rod or direct to the connection at the end of the hose, giving the advantage of 45 degree discharge either way.

No. 2297 4 $\frac{1}{4}$ -gal. galv. tank ..... \$5.50

No. 2297B 4 $\frac{1}{4}$ -gal. brass tank ..... 9.50

Shipping weights, 13 lbs.

No. 2296 2 $\frac{1}{2}$ -gal. galv. tank ..... 5.00

No. 2296B 2 $\frac{1}{2}$ -gal. brass tank ..... 8.50

Shipping weights, 10 lbs.



Fig. 210

## Brown's Siren A Outfit

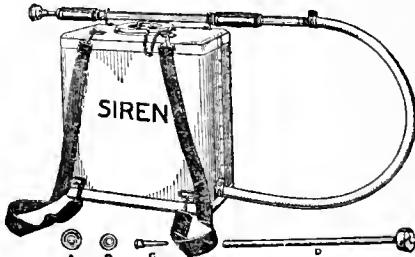


Fig. 209

Brown's Siren A Outfit has been especially designed for use as a fire-fighting machine, although it is useful for agricultural purposes. The tank has a capacity of 5 gallons, made of strong copper bearing galvanized steel sheet. The No. 5 pump is double acting, made of brass, and will easily generate a pressure of over 200 pounds.

Brown's Siren A Outfit, complete with Pump ..... \$9.45  
Shipping weight, 11 lbs.

No. 5 Pump only ..... 4.45  
Shipping weight, 4 lbs.

### Myers Cog Gear Spray Pump, Double Acting

Complete Outfit, mounted on platform with 50-gallon Barrel and Mechanical Agitator, with Brass Valves and Ground Bevel Brass Seats, 2-inch Seamless Brass Removable Cylinder, Hemp Packed Plunger and Double Lever Shut-Off Discharge. Cog Gear Movement increases the leverage, adapting it for spraying under heavy pressure. Mounted complete. Occupies smallest possible space. An ideal outfit for spraying potatoes. Will set in an ordinary farm wagon box.

Price: No. R316B, Pump complete, 50-gallon barrel mounted as shown, with pressure gauge, one 15-foot lead of  $\frac{3}{8}$ -inch 7-ply discharge hose, one Fembro Fig. 1290 nozzle, one 8-foot pipe extension with lever shut-off and mechanical agitator, \$54.00.

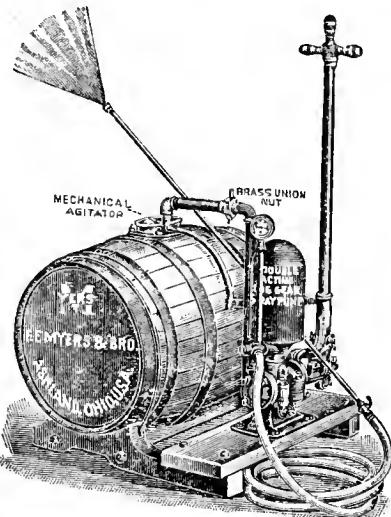
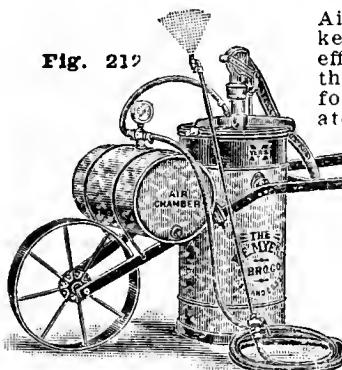


Fig. 211

### The Myers Portable Sprayer

Fig. 212



Portable Sprayer with 6 Gallon Air Chamber which assists in keeping up a steady spray with less effort by the operator. It will hold the pressure and continue to spray for several minutes while the operator leaves the pump to cover nearby trees.

The pump is fitted with cog gear handle, is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank, held in position by one thumb screw. The handle can be located at any point desired.

No. R339B. Myers Handy Portable Sprayer, complete as

shown with Air Chamber, Pressure Gauge, Dasher Agitator, 15 feet  $\frac{1}{2}$  inch 5-ply Discharge Hose, 8 foot Pipe Extension with Lever Cut-off and Vermorel Nozzle, Wheel  $15\frac{1}{2} \times 3$  inch. Price, \$40.00.

### Myers Spray Gun



Fig. 213

Illustrates the Spray Gun. This gun discharges a long distance spray, by means of which the top of the highest fruit tree can be reached, a slight turn of the handle widens the spray and another short turn throws off spray entirely when ready to move to next tree.

Price, weight 5 lbs..... \$6.00

### Bamboo Spray Rods

The Bamboo Extension is made of selected bamboo, 8 ft. and 10 ft. in length, through which is placed a special brass tube of  $\frac{1}{8}$  inch inside diameter; the shut-off lever and male end are attached to the brass tube by heavy threads (no solder) and has wide shield at top to prevent solution running down the pole.

#### PRICE LIST

8-ft. bamboo extension, with leakless shut-off cock..... \$4.00  
10-ft. bamboo extension, with leakless shut-off cock..... 4.40

All prices in this catalogue are subject to change without notice.

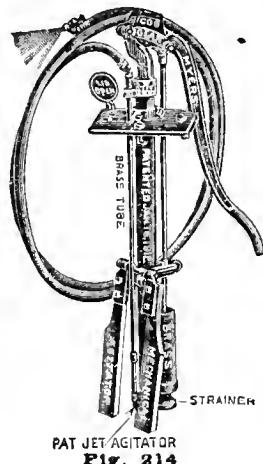
### Myers Cog Gear Barrel Spray Pump

The construction is such that the entire pump sets inside the barrel containing the liquid, being bolted fast at its upper end to the head of the barrel. By this arrangement the working parts are entirely submerged in the liquid that is to be sprayed, thereby avoiding all possibilities of losing priming, doing away with the necessity of a suction pipe, placing the agitator in the bottom of the liquid in a simple form, and also doing away with a large number of complicated parts.

Price. No. R318B, Myers Cog Gear Barrel Spray Pump complete, with one lead of 15 feet of  $\frac{1}{2}$ -inch 5-ply discharge hose, graduating Vermorel nozzle, and mechanical agitator, \$16.00.

8-ft. Pipe Extension extra, 75c.

Price, complete, all set in barrel, with 8-ft. extension, \$20.50.

PAT. JET AGITATOR  
Fig. 214

### The Myers Portable Sprayer

Is fitted with cog gear handle and is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank held in position by one thumb screw. The handle can be located at any point desired.

The Pump is fitted complete with dasher agitator, hose and an 8-foot pipe extension in two 4-foot parts, which adapts it for spraying large trees and also for use in whitewashing on the inside of low buildings.

The tank is made of heavy galvanized iron thoroughly reinforced at top and bottom by steel bands. Hung in the frame on trunions.  $12\frac{1}{2}$  gallons capacity.

The wheel and handles are made of wrought steel thoroughly braced. The wheel is  $15\frac{1}{2}$  inches in diameter, with 3-inch tire.

No. R336B. Price, \$25.00. Can be furnished with two wheels at same price.

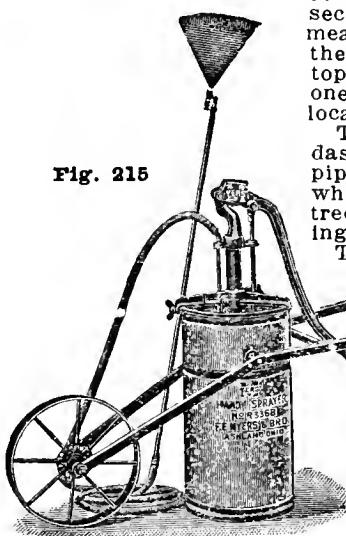


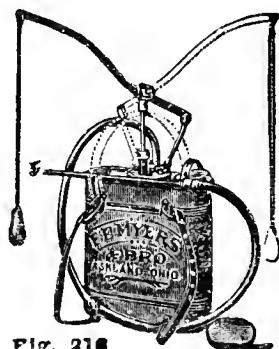
Fig. 215

### The Myers Perfect Knapsack Spray Pumps

The tank, made of either galvanized iron or copper, holds 5 gallons of mixture. It is double seamed and soldered, and is fitted with tight lid and strainer. The top and bottom are recessed into ends of Tank, seamed and soldered, making a very stiff and substantial Tank. It is shaped so that it can be carried on the back, shoulder straps being provided for this purpose. Handle lever is arranged for shifting from right to left at will of operator.

The Spray Pump used in this outfit is constructed entirely of brass. It is provided with a large air chamber and has heavy brass cylinders, brass ball valves, patent agitator to keep liquid thoroughly mixed.

Weight 16 lbs.  
No. 330. Galvanized .....  
No. 331. Copper .....



Price  
\$12.50  
18.00

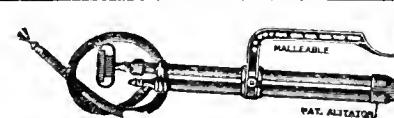


Fig. 217

No. 327 $\frac{1}{2}$ . Little Giant Brass Spray Pump, with agitator, complete with hose and Imperial combination fine, coarse spray and solid stream nozzle, with malleable foot rest. Price, \$3.75. Weight, 6 lbs.

## Sprays for Roses and Other Plants



4 ozs.	\$0.60
1/2 pint	1.00
Pint	1.75



2 ozs.	\$0.50
1/2 lb.	1.25
1 lb.	2.25



4 ozs.	\$0.45
1/2 pt.	.75
Pint	1.25
Quart	2.00
Gallon	6.00

**TEROGEN.** Autumn-Winter Ground Dressing and Soil Disinfectant. Destroys the spores of fungi of most diseases. Kills the larvae of insects, such as rose-pith, borer, rose bugs, Japanese beetles, aphids and ants. A valuable fertilizer. Prices: 1-lb. tins, \$0.75; 2-lb. tins, \$1.25; 5-lb. tins, \$2.75.

**BUG DEATH.** The first cost to kill the bugs on an acre of potatoes is rather more than that of arsenical insecticides, the results at harvesting time are entirely satisfactory, and where practical tests have been made, the extra yield of marketable potatoes has more than paid the entire expense. It is non-poisonous, which makes it perfectly safe to use on all plants or vines. 1-lb. pkg. 20 cts., 5-lb. pkg. 75 cts., 12 1/2-lb. pkg. \$1.50, 100-lb. pkg. \$9.50.

**COAL TAR.** For tarring corn to prevent crows from pulling it. 1/2 pt. 15 cts., 1 pt. 20 cts., qt. 30 cts. Shipping weight 2 lbs. and 4 lbs.

**CREOSOTE FOR GYPSY MOTHS.** For the destruction of the eggs of gypsy moth. Q1. 55 cts. Shipping weight 3 lbs. Gal. \$1.25, weight 9 lbs. 5 gal. can \$5.00.



Pat. in Canada Nov. 2, 1897. Pat. Mar. 16 and Nov. 9, 1906.

**POSTAL LAWS WILL NOT PERMIT MAILING OF POISONS**

## KALCO

**KALCO CALCIUM CASEINATE** acts as a cohesion neutralizer. Cohesion is the attraction which fine particles have for each other and which causes the particles to bunch up, either as granules in the dry form or like drops of oil in the liquid form. The finer the particles, the greater the cohesion. KALCO destroys this tendency toward cohesion and causes the material to spread evenly. KALCO CALCIUM CASEINATE, acting as a spreader and adhesive for spray materials, pays back its cost many times over. Prices: 2 lbs., \$0.38; 10 lbs., \$1.80; 100 lbs., \$17.00.

**DRY ARSENATE OF LEAD.** The trade seems to demand this in the dry state as it has so many advantages over the paste. The dry will keep forever, is less bulky, does not freeze and spoil. Send for descriptive catalogue which gives valuable information for every tree grower. 1-lb. bag 35 cts., 4-lb. bag \$1.00. Get our prices on large quantities.

## Black Leaf 40

(Niktoen Sulphate, Niktoen 40 per cent)

**BLACK LEAF 40** is the best known remedy for Potato Lice and other similar insects. Is perfectly soluble in cold water. Can be used in combination with lime, sulphur, arsenate of lead, Bordeaux mixture. Is used as safe and effective for plant lice, thripe, leaf hoppers, etc. Highly recommended by State and Government Experts. Use about 1 to 1,000, or 1 oz. will make six gallons of solution. 1 oz. 35 cts., 5 oz. \$1.00, 1 lb. \$2.25, 2 lbs. \$3.35, 5 lbs. \$6.25, 10 lbs. \$10.75.

## Tree Tanglefoot

A perfect safeguard for trees against gypsy, brown-tail and tussoca moth, canker worm, ants and all creeping things. It will remain sticky about three months, fully exposed to the weather. 1-lb. can 60 cts., 5-lb. can \$2.75, 10-lb. can \$5.25, 25-lb. pail \$11.00.

**DRY BORDEAUX POWDER.** For preventing blight on grapes, potatoes and other crops that are subject to rust, mildew and black rot; applied dry with bellows. 1b. 35 cts., 4 lb. bag \$1.00.

**GRAFTING WAX.** Prices, 1/4 lb. 20 cts., 1/2 lb. 30 cts., 1b. 50 cts.

**HELLEBORE.** Sure death to the currant worm. 1b. 60 cts., 1/2 lb. 35 cts.

## "Herbicide"—The Weed Exterminator

**"HERBICIDE"—THE WEED EXTERMINATOR.** Kills grass and weeds of every kind on roadways, gutters, tennis courts, etc., by one application. Its use will save much labor and expense in the long run. 1 qt. 70 cts., 1 gal. cans, \$2.00, 5 gal. cans \$7.50, 10 gal. cans \$12.50; 30 gal. cask \$30.00, 50 gal. barrel \$45.00. Full directions accompany each package.

**IN-A-MINUTE.** Will destroy bugs, roaches and similar vermin. Used for cleaning clothing, ink stains, etc. Price 14 oz. bottle 50 cts.



**DRY LIME SULPHUR.** All the old disagreeable features of spraying with liquid lime sulphur is done away with by using the new sulphur compound. It is not caustic, does not freeze, is good till used and is fully 25 per cent cheaper to use than that in the liquid state. Put up as follows: 1-lb. cans 30 cts., 5-lb. cans \$1.25, 10-lb. cans \$2.15, 25-lb. cans \$3.50, 100 lbs. \$11.50, 200 lbs. \$11.00 per 100.

**CONCENTRATED LIQUID LIME SULPHUR** kills San Jose Scale, Oyster Shell, etc. It is an easily prepared spray which should be applied to trees anytime between the Autumn falling of leaves and the Spring budding. It

destroys growths injurious to the tree without in any way harming the tree itself. It permits unhampered development, with beautiful, clean foliage. Simply dilute with water and apply. 1 gallon of Lime Sulphur makes 10 gallons of spray. 1 qt. 45 cts., weight 3 lbs.; 1 gal. \$1.00, weight 12 lbs.; 5 gals. \$3.25. 50-gal. barrel, price on application.

**EVER GREEN.** Effective against most other plant pests, including Cucumber and Melon Beetles, Cabbage Worms, Rose Slugs, Leaf Hoppers, Currant Worms, etc.

**SAFE**—Kills only insects—harmless to man, live stock, birds and pets.

**NON-INJURIOUS**—Spray freely on the tenderest plants. Won't injure the ground.

**EASY TO USE**—Just mix with water and stir. No unpleasant odor.

**WON'T GUM SPRAYERS**—No bad effect on metal or rubber. Stays in solution and can't clog sprayers. **Prices:** 1-oz. bottle, \$0.35; 6 oz., \$1.00; 16 oz., \$2.00; 32 oz., \$3.50; 1 gal., \$11.50.

**FORMALDEHYDE**—prevents potato diseases and insures a big, healthy crop. Directions mailed upon application. 1 lb. 45 cts.

**PARIS GREEN.** A poisonous, insoluble powder, for preventing the ravages of potato-bugs, codling moth, caterpillars, slugs and bugs. Mix one pound to 100 pounds of plaster, or 200 gallons of water. **Lb.** 50 cts.,  $\frac{1}{4}$  lb. 20 cts.

**PINE TAR.** Used in the stable for cuts and bruises.  $\frac{1}{4}$  pt. 20 cts., pt. 30 cts., qt. 40 cts.

**SEMESAN.** The Modern Seed Disinfectant for all agricultural purposes. Full directions with each can. Circulars mailed upon application. **2-oz. can 50 cts., 1-lb. can \$2.75.**

**SEMESAN JR.** For sweet and field corn diseases. **4-oz. 50 cts., 1-lb. tins \$1.75.**

**SEMESAN BEL.** For bulbs, roots and tubers. **4-oz. 50 cts., 1-lb. tins \$1.75.** Semesan being poisonous disinfectant is not mailable.

**TOBACCO DUST**, in one pound package for dusting plants for lice etc. 1 lb. 20 cts., 5 lbs. 40 cts.

**FISH OIL SOAP.** For destroying insects on plants, etc., in small boxes. **Lb. 40 cts., 5-lb. pail \$1.75.**

**SLUG SHOT.** A fine powder used for potato bugs and other insects. Recommended for cabbage worms. **5-lb. package 60 cts., 1-lb. pkt. 20 cts.**

**GRAPE DUST.** A readily diffusible, light weight powder Fungicide, very efficient in destroying Powdery Mildews and in preventing Blights in greenhouses or in the open. **Price: 5-lb. pkg. \$1.00.**

**CARBOLINEUM.** Of the numerous preservative compounds on the market Carbolineum stands alone as time-tried and thoroughly tested. **Gallon can \$1.75.** Weight 11 lbs. **5-gal. can \$7.25.**

**RED ARROW**  
NON-POISONOUS  
**INSECT SPRAY**  
(PYRETHRUM SOAP) → Is a contact insecticide particularly adapted for Horticultural, Greenhouse and Agricultural use. Kills by progressive paralysis. Insects, if properly sprayed, never recover. Fatal to both chewing and sucking insects. Red Arrow is absolutely non-poisonous to children, poultry or pets. **1-oz. bottle 35c,  $\frac{1}{4}$  pt. \$1.00,  $\frac{1}{2}$  pt. \$1.75.**

### Dolge Weed Killer

A minute a day keeps the weeds away.  
Kills all growth on Tennis Courts, Walks and Drives. Destroys Ivy, etc., on walls, fences and court yards.

#### PRICES

1-qt. can (enough for	10 gals.)	• 0.75
1-gal. can (enough for	40 gals.)	1.75
5-gal. can (enough for	200 gals.)	8.50
10-gal. can (enough for	400 gals.)	15.00
30-gal. bbl. (enough for	1,200 gals.)	37.50
55-gal. bbl. (enough for	2,000 gals.)	57.75

### SUNOCO SELF-EMULSIFYING SPRAY

For scale insects, aphids and red mite on apple trees. The ideal petroleum spray is an oil that will form a perfect and permanent mixture with water. The most distinctive characteristic of SUNOCO SPRAY is that it forms a perfect, permanent emulsion and will carry to every recess and cavity of bark or foliage in which the insect pests choose to harbor.

50-gallon steel drums, per gallon.....	\$0.46
30-gallon steel drums, per gallon.....	.53
15-gallon steel drums, per gallon.....	.62
5-gallon can, per gallon.....	1.00
1-gallon can, per gallon.....	1.25

**SCALECIDE.** The quality miscible oil. Oldest and best known dormant spray for trees, shrubs and vines—makes them more beautiful, healthful and fruitful. Used by leading fruit growers. Pleasant to use—non-caustic, non-corrosive, non-poisonous. Kills scale, insects, eggs, larvae and disease cankers and fungous spores wintering on the plant. Mixes instantly—dilute 1 to 15. **Prices: 1 qt., weight 3 lbs. 70 cts.; 1 gal., weight 9 lbs., \$1.60; 5 gals., \$6.00; 10 gals., \$10.00; 15 gals., \$13.50; 30 gals., \$22.50; 50 gals., \$28.00.**



**SULFOCID.** A concentrated liquid sulfur fungicide. Used on both apples and peaches and all kinds of fruits, vegetables and flowers. Controls apple scab, brown rot of peaches, plums and cherries, blight and rot of potatoes, tomatoes and melons. Is one of the finest bean sprays known. Used for mildew and rust on flowers and shrubs. Convenient, economical and effective. Dilutes one gallon to two hundred gallons of water. **Prices: 1 pt. 70 cts.; 1 qt., \$1.00; 1 gal., \$2.75; 5 gals., \$8.75; 10 gals., \$15.00; 15 gals., \$21.00; 30 gals., \$39.00; 50 gals., \$60.00. Packages not returnable.**

**WILSON'S O. K. PLANT SPRAY** is one of the best insecticides you can get for your flower and vegetable gardens. In order to have healthy, well-bearing plants you must first rid them of the thousand and one pests that attack them. Spray them in time with WILSON'S O. K. PLANT SPRAY and save replanting.

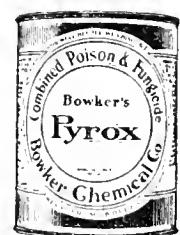
**EFFECTIVE:** It kills Aphids, Thrip, Red Spider, Lace Wing Fly on Rhododendrons, Box Mite, Currant Worms and many other bugs that should not be on speaking terms with your plants. **Prices:  $\frac{1}{2}$  pint, \$0.40; 1 quart, \$1.00; 1 gallon, \$3.00; 5 gallons, \$12.00.**

### Pyrox

Results obtained by Pyrox users for over thirty years are proof of the value of this powerful spray. When used for vegetables and small fruits, it frequently increases yields 20% and more. It is indispensable for hardy and vigorous foliage, even when there are no evidences of bugs or blight.

Pyrox is easy to use. Just mix with water in accordance with directions and you will have a perfect mixture which will spray like mist through the finest nozzle. 1 pound of Pyrox makes 5 to 6 gallons of spray.

1-lb. jar	• 0.50
5-lb. drum	1.75
10-lb. drum	3.00
25-lb. drum	6.25
50-lb. drum	10.75
100-lb. keg	15.50
300-lb. barrel	43.50



**NICOTINE PYROX** is the standard Pyrox with nicotine added to control sucking insects as well as the chewing insects and blight. A complete spray.

10-oz. jar	• 0.50
40-oz. drum	1.75
10-lb. drum	4.50

# K-R-O

KILLS-RATS-ONLY

**WILL RID YOUR PREMISES**, without endangering your pets, livestock, poultry, etc.

This wonderful new exterminator, K-R-O, is the only one of its kind on the market that is harmless to animals other than rats and mice, and fulfills a longfelt want among users of rat exterminators. Price, 2 oz. 75 cts., postpaid 80 cts.; 4 oz. \$1.25, postpaid \$1.35.

Farm size, price, \$2.00. Postpaid, \$2.10.

**K-R-O Ready Mixed**, \$1.00. Postpaid, \$1.10.

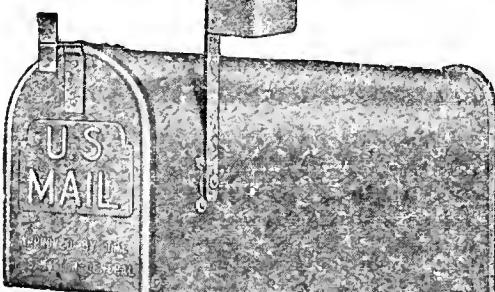
**Tanglefoot Fly Spray**  
Tanglefoot Fly Spray has a pleasing odor and leaves no stain. It destroys Flies, Fleas, Mosquitoes, Bed Bugs, Wasps, Spiders, Moths, Roaches and Ants, as well as certain other insects that infest houses, stores, etc.  $\frac{1}{2}$  pt., wt. 1 lb., 35 cts.; 1 pt., wt. 2 lbs., 65 cts.; 1 qt., wt. 3 lbs., \$1.00; 4 qts., wt. 9 lbs., \$3.00.  $\frac{1}{2}$ -pint hand sprayer, wt. 2 lbs., 40 cts.

**FLIT.** Destroys flies, mosquitoes, moths, ants, bed bugs and roaches.  $\frac{1}{2}$  pt., wt. 1 lb., 35 cts.; 1 pt., wt. 2 lbs., 60 cts.; 1 qt., wt. 3 lbs., \$1.00; 1 gal., wt. 9 lbs., \$3.25.

**K-O FLY SPRAY** for Cattle is safe, clean and clear—contains no tar, refuse or heavy dark oils. It has one hundred per cent efficiency and is highly economical. Will not taint milk when used as directed. Price per gal., \$1.50; weight, 9 lbs.

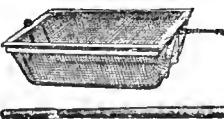


Fig. 227



### The New Rural Mail Box No. 2

Conforming in every way to the Post Office requirements for rural delivery box. Dimensions: No. 2, 23 $\frac{1}{2}$  in. long, 11 in. wide and 14 in. high. Weight 29 lbs. Price, \$3.50.



### Corn Poppers

Made up of heavy woven wire, with stained handle. Everybody should have one.

1 qt. .... 30¢  
2 qt. .... 40¢  
4 qt. .... 70¢

Mailing weight, each 2 lbs.

Add postage for your zone. See inside of front cover.

## KILL INSECTS

Quicker—Safer—Easier

with

### KALO NON-ARSENICAL INSECTICIDES

Using Proven, Modern Principles Controlling More Insects

### WITHOUT ARSENIC



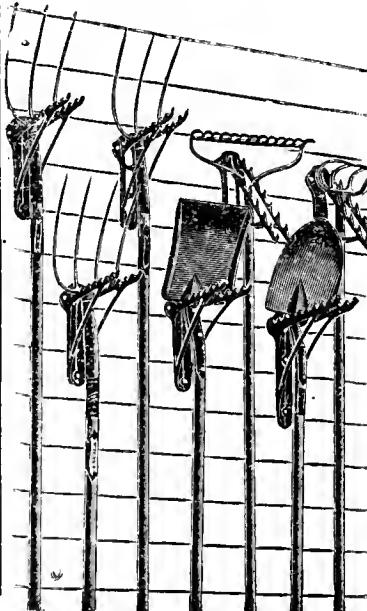
**KALITE** A quick-killing dust for most chewing insects, as Beetles, Worms, Caterpillars, including Cucumber Beetles, Mexican Bean Beetles, Cabbage and Tomato Worms, Blister Beetles, Flea Beetles, and many others not killed by old-fashioned insecticides. Safe to use. Does not burn foliage. 1-lb. can 35 cts.,  $\frac{3}{4}$  lb. can \$1.00, 25 lbs. \$5.00.

**KALO SPRAY** Used as a wet spray for same insects as KALITE. Also for Codling Moth, Oriental Fruit Moth, Curculio. Safe to use and safe for foliage.  $\frac{1}{2}$ -lb. can 35 cts., 4-lb. bag \$1.45.



**KALOIL** A non-poisonous spray for most insects. An economical pyrethrum contact spray. Mixes readily with any water for instant use. Needs no soap. Particularly for sucking insects such as Aphis (plant lice), Leaf Hoppers, Mites, Thrips, White Flies. 1 $\frac{1}{2}$ -oz. can 35 cts., 6 oz. \$1.00, 32 oz. \$3.50.

**KALITE and KALOIL** are mailable.



### Hager Tool Rack

Designed for store or stable. Made in three styles for shovels, hoes or forks.

Combination racks for stores can be used for all. Price, 85¢ each. Wt., 8 lbs.

Fig. 224

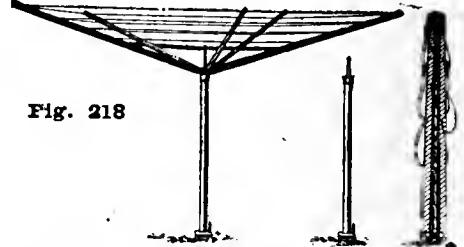


Fig. 218

**HILL'S CHAMPION DRYER.** Made of selected wood, neatly painted. Ground box has galvanized cover. A very attractive dryer, one that will last. Can be folded and put away easily. Price  
Wood post, 115 ft. .... \$11.00  
Steel post, 115 ft. .... 12.75  
Wood post, 150 ft. .... 12.50  
Steel post, 150 ft. .... 14.50

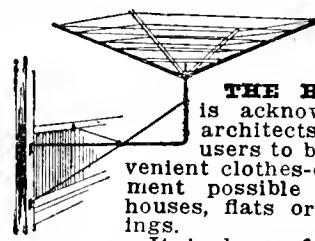


Fig. 219

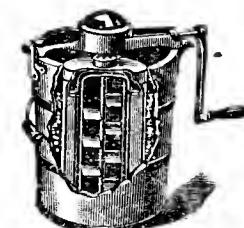
**THE HILL DRYER** is acknowledged by all architects, builders and users to be the most convenient clothes-drying arrangement possible for apartment houses, flats or private dwellings.

It is hung from the piazza posts, as seen in illustration, or from side of building, and so arranged that each line is easily reached. The swing arms are made of steel, and will support a great weight. The Dryer top is fastened, opened and locked to the post by a patented device which makes it impossible for it to be blown off.

Hill Balcony Dryers have four arms, 5 ft. 6 in. long, and holds 110 ft. of line.

### PRICE

Upright Style H, as in cut. .... \$14.00  
Inverted Style D. .... 15.00



### White Mountain Ice-Cream Freezer

#### PRICES

Qt.	Weight	Price
1	6 lbs.	\$3.00
2	10 lbs.	3.60
3	12 lbs.	4.25
4	14 lbs.	5.00
6	20 lbs.	6.25

Fig. 220

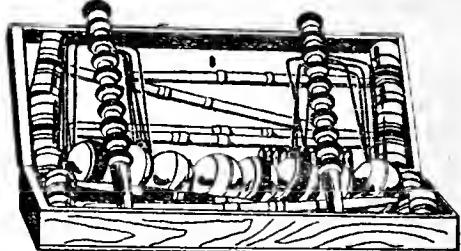


Fig. 221

No. 1	8 Ball set, 6	-in. mallet.	5.50
No. 85	8 Ball set, 6	-in. mallet.	4.75
No. 00X	8 Ball set, 8	-in. mallet.	8.95
No. 20	8 Ball set, 8	-in. mallet.	15.50
No. 2X	8 Ball set, 8	-in. mallet.	6.00
No. 4	8 Ball set, 5 $\frac{1}{2}$ -in. mallet.		4.25
No. 5X	8 Ball set, 8	-in. mallet.	5.00
No. 6	4 Ball set. ....		2.00
No. 7	6 Ball set. ....		2.50
No. XA	8 Ball set. ....		3.50
No. AAA	8 Ball set, 9	-in. mallet.	7.00



## SKYSCRAPER RUBBISH BURNER

The high Carbon steel strips together with the woven construction of this Outdoor Rubbish Burner takes care of the expansion and contraction of the metal, during and after the burning process, and prevents the Warping and Buckling so common in all Sheet Iron or Wire Burners.

Price:

4-E. Each.....	\$11.25
3-E. Each.....	6.75
EE. Each.....	4.50
DD. Each.....	3.75

For  
Homes, Stores  
Factories and  
Institutions  
Fig. 229



### Extension Ladders

Made from white spruce and recommended by telephone and telegraph folks who use these. Allow 4 ft. for lap.

Ft.	Per ft.
20 to 32	42c
34 to 40	45c
42 to 44	50c

Fig. 230



### Closed Top Fruit Ladder

This Ladder manufactured purposely for fruit picking. Upper section closed or pointed at top to run up in thick branches of trees.

Ft.	Per ft.
10 to 22	39c

Fig. 231

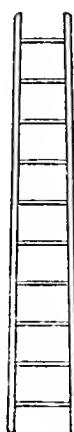
### Paris Step Ladders



These ladders are made by the Paris Mfg. Co., which is sufficient guarantee for their durability and workmanship. Every ladder heavily trussed and reinforced. We carry all lengths.

8 ft.....	\$1.95
4 ft.....	2.60
5 ft.....	3.25
6 ft.....	3.90
7 ft.....	4.55
8 ft.....	5.20
10 ft.....	6.50

Fig. 232

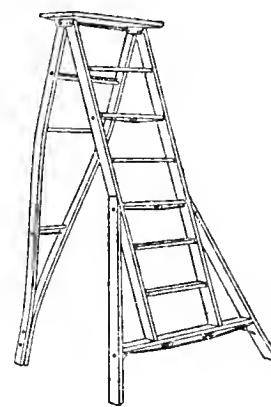


### Common Taper Ladders

Made of white spruce. Very strong and durable.

Ft.	Per ft.
8 to 16	30c
18 to 20	33c
22 to 24	38c

Fig. 233



### Columbia Fruit Step Ladder

This Fruit Step is the latest, strongest, best and most practical fruit step on the market. Made from Clear Spruce; steps reinforced with truss rods. Made in 5, 6, 8, 10 and 12 ft. lengths. Price per ft. 70c.

Fig. 234

### Plain Galvanized Ash Can

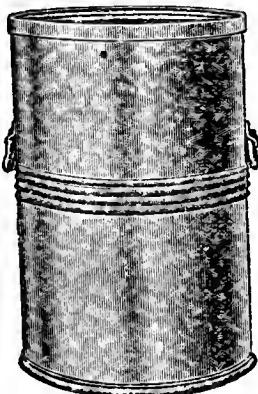


Fig. 235

No. 1. 17x25 in. A medium weight can suitable for all purposes. Used by the poultrymen for grain cans and the like. Price, \$1.50. No. 020. 17x25 in. Not shown....\$1.00

### Corrugated Galvanized Ash Can

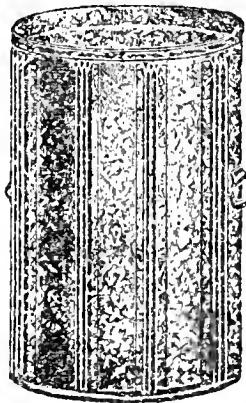


Fig. 236

Ajax. 18x26 in. A medium weight can, corrugated, which makes it extra strong. Price, \$3.50. Covers, 60c.

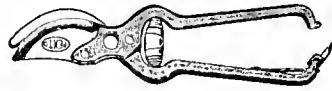


Fig. 237

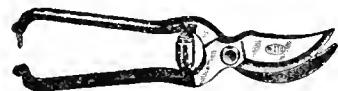
Keep the Home Fires Burning, but sift your coal and save every piece. Rightly named, for it does the work in half the time with no dust or noise and with very little work.  
No. 1. Family size.....\$2.75  
No. 1. Complete with galvanized ash can ..... 3.50  
Galvanized ash can, 17x25, No. 020. 1.00

**"Pexto" Pruning Shears****No. 5—9-in.**

Cast iron handles, blue steel blade.  
Price, each.....\$0.50

**No. 50—9-in.**

Malleable iron handles, black tool steel blade.  
Price, each.....\$0.75

**No. 505—9-in.**

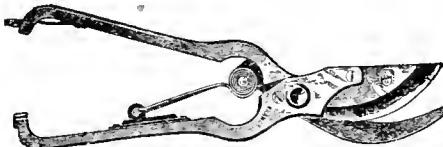
Solid forged steel red handles.  
Price, each.....\$1.00

**No. R605—9-in.**

Solid forged steel, red handles.  
Price, each.....\$1.40

**No. R505—9-in., with regulating ratchet bolt.**  
Price, each.....\$1.25

**No. 605—9-in., without regulating ratchet bolt.**  
Price, each.....\$1.25

**French Pruning Shears****Fig. 239**

Forged tool steel blade, drop-forged handles. Price, 7-in. \$1.75, 8-in. \$1.85, 9-in. \$2.00, Postpaid.

**"TIFFANY" All Steel Tree Pruner**

Cuts from Both Sides of the Limb and Does Not Bruise the Bark

Cuts 1½-inch limbs with ease



Light, powerful and practical

**Fig. 240**

This is a strictly high-class pruner in every detail. It is hammer forged from fine crucible steel, which is made expressly for the manufacture of "Tiffany" pruners. The blades are carefully tempered in oil, and put together with a heavy rivet under tremendous pressure, which insures a good fit, and can be quickly tightened with a hammer, having no nuts or complicated joints to get loose.

The blade has the draw cut principle and cuts very smooth and easy. Its high quality will prove it a good investment. Length 20 in., wt. 2½ lbs. Price, postpaid.....\$3.25  
Length 25 in., wt. 3 lbs. Price, postpaid.....3.50  
Length 30 in., wt. 3½ lbs. Price, postpaid.....4.00

**Two-Hand Pruners****Fig. 241**

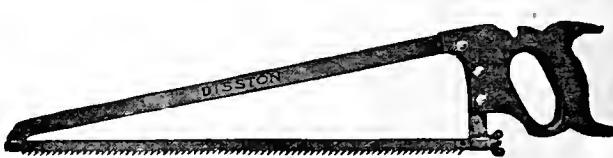
A heavily constructed pruner with an absolute broad cut, made for heavy duty work. 24 in. handle. Price each \$2.50. Mailing weight 6 lbs.

Add postage for your zone.

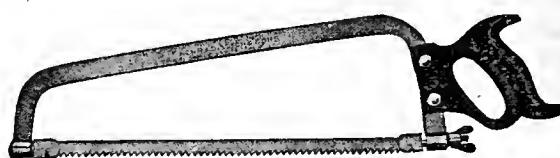
See inside of front cover.

**Pruning Saws****Fig. 242**

**No. D-27.** 26 in. Mailing weight 3 lbs.....\$3.25

**Fig. 243**

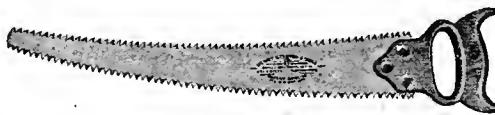
**No. 19.** 18 in. Mailing weight 2 lbs.....\$1.90

**Fig. 244**

**No. 15.** Blade 14 in. Mailing weight 3 lbs. Price.....\$2.00  
Extra Blade .....\$0.30

**Fig. 245**

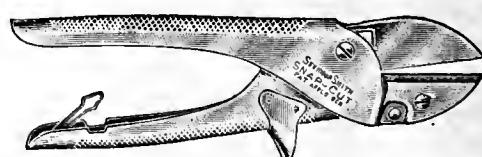
**No. 3.** 16 in. Mailing weight 2 lbs.....\$1.25  
18 in. Mailing weight 2 lbs.....1.40

**Fig. 246**

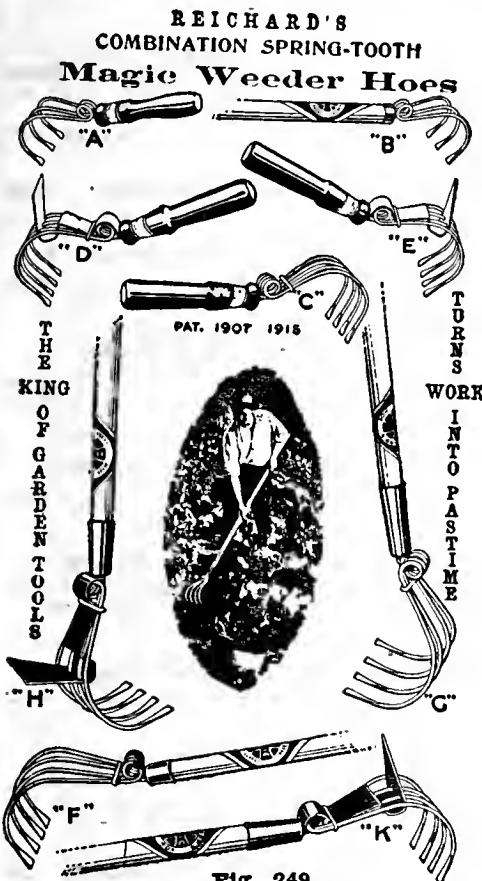
**No. 5.** 16 in. Mailing weight 2 lbs.....\$1.75  
18 in. Mailing weight 2 lbs.....1.90

**Fig. 247**

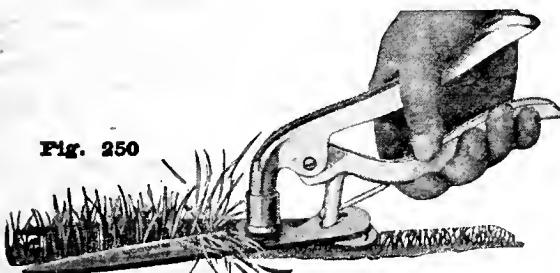
**No. 4.** 16 in. Mailing weight 2 lbs.....\$1.65  
18 in. Mailing weight 2 lbs.....1.75

**Snap Cut Pruner**

The "Snap Cut" is new and different; the thin, keen blade cuts onto a soft metal block with a long shearing or drawing cutting action and makes remarkable performance possible. It easily cuts ½-in. seasoned hardwood or ¾-in. green wood, the smallest twigs, and even twine that is used for tying vines, etc. This feature, with the perfect clean cuts, the absolutely non-pinching handles and beautiful rust-proof chromium finish, make it a shear every householder, gardener, fruit grower and farmer wants. Price, postpaid.....\$1.75

**Magic Weeder Hoes****Fig. 249****Specifications and List Prices**

Style	Length of Handles	Price each	Postpaid each
A	5 1/4 in.	.15	.25
B	18 in.	.20	.30
BB	36 in.	.30	.40
C	5 1/4 in.	.30	.40
D	6 in.	.45	.55
E	6 in.	.45	.55
F	42 in.	.65	.80
G	48 in.	.90	1.05
H	48 in.	1.10	1.25
K	48 in.	1.10	1.25

**Goodwin Grass Shears****Fig. 250**

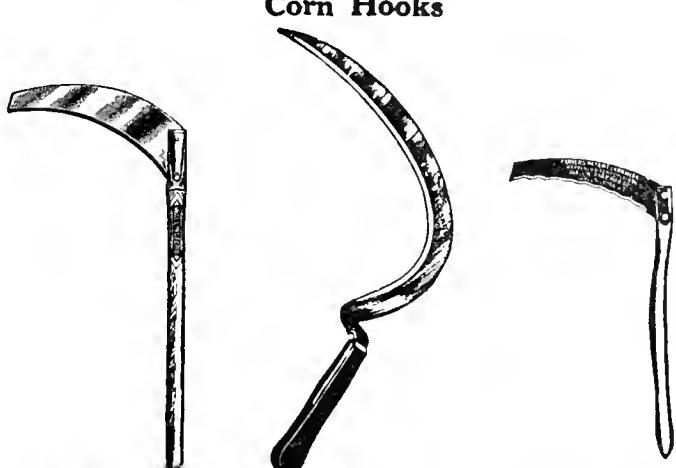
This up and down shear is easy to operate. Made strong and cannot get out of order and is the right way to trim the grass. Polished. Weight, 2 lbs.....Price, each \$1.50  
Goodwin, Jr.....Price, each 1.00

**Made in Ten Styles**

For all conditions of the soil and every member of the family.

By reason of the curved spring tines, which are made from the very best galvanized steel obtainable for the purpose, they enter the soil very easily and do not clog, so that it is really a pleasure to use these tools.

The handles are thoroughly selected and are guaranteed not to loosen from the twisted shank. Styles A, C, D and E in assorted colors, red and green shellacked finish. Styles B, BB, F, G, H and K, plain finish.

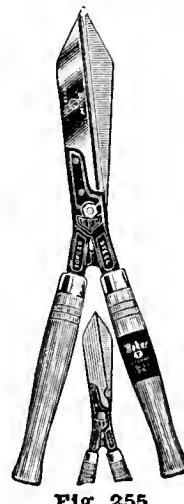


**Fig. 251-A**  
**A.** Vt. Corn Hooks, plain handle, plain blade....Price, \$0.40  
**B.** Spring Steel Corn Hooks, curved handle.....Price, .75  
**C.** Solid Steel with off-set blade.....Price, .50  
 Mailing weight each 2 lbs.

**Orchard Pruner****"The Pruner with the Sliding Handle"**

The selected, high grade aeroplane spruce used in these pruners is strong and light, and makes the most reliable pruner poles. The blades are hardened and tempered tool steel—not ordinary soft steel. All bolts, screws, etc., are large size and case hardened to resist wear. The springs are of high carbon spring wire carefully heat treated and are very durable. The slide handles are made from hard wood and are oil treated so as to slide easily and will not give trouble by sticking to pole. The design of the blades, their fine cutting edges and the powerful leverages make heavy pruning easy.

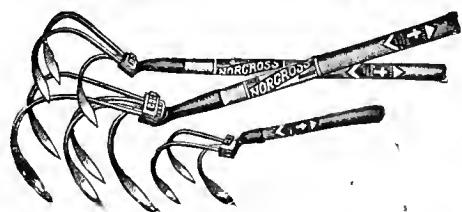
Price: 8 ft. \$2.50, 10 ft. \$2.75, 12 ft. \$3.00, 14 ft. \$3.25, 16 ft. \$3.50.

**Fig. 254****Boker's Hedge Shears**

These hedge shears have high carbon drop forged steel blades which are riveted to unbreakable drop forged steel shanks. Handles, natural color, from selected hard maple wood. Mailing weight, 5 lbs.

**No. 15** 9-in.  
Notched and serrated.  
Price ....\$2.00

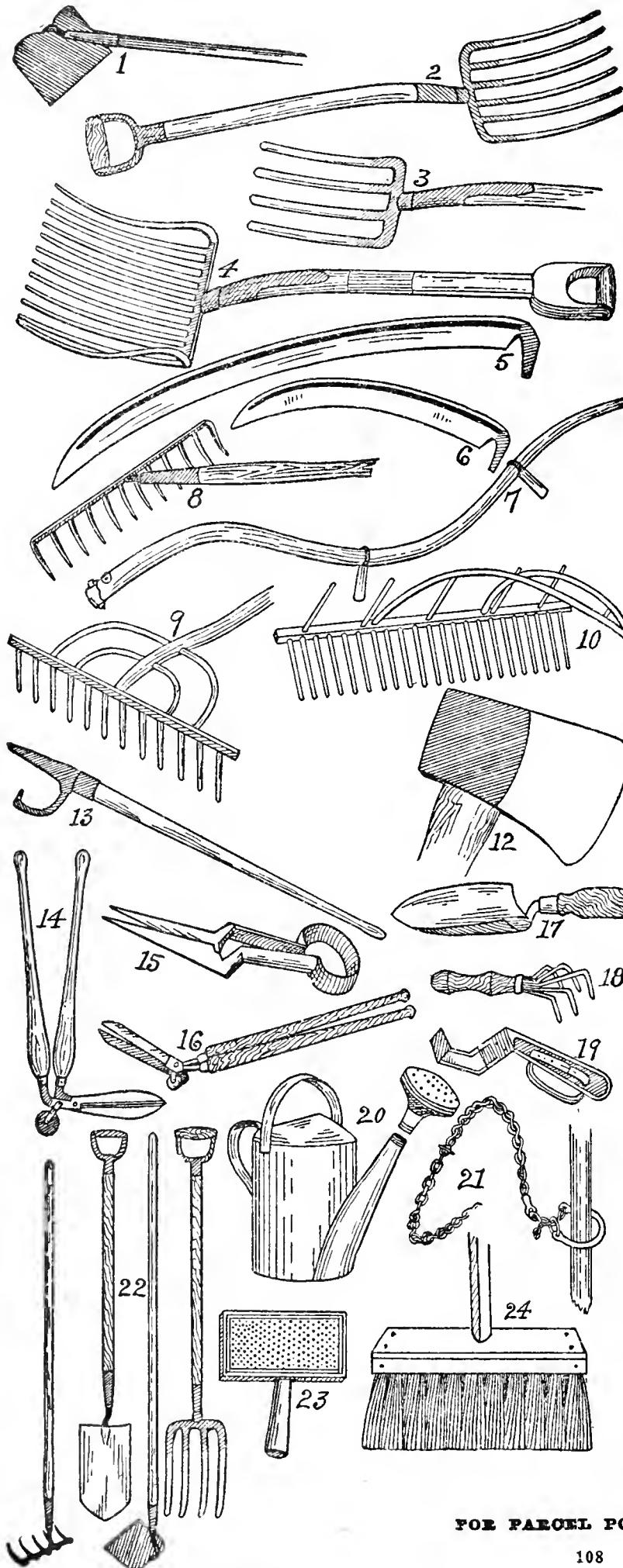
**No. 10** 9-in.  
Notched only.  
Price ....\$1.75

**Norcross Improved Hand Garden Cultivator**

A very handy garden tool, 5 prongs, \$1.00; 3 prongs, 75 cts. Hand, 50 cts. Mailing weight, 3 lbs.



**Fig. 257**  
**STEEL BLADE TREE SCRAPER**  
 75 cts. each. 2 lbs.



**The Following Is a Partial List of the Large Line of Hand Tools We Carry**

**IN ORDERING, GIVE NAME, NUMBER AND SIZE**

**Fig. 1. Hoes.**

8 in. Field Socket.....	\$1.10
8 in. Field Shank.....	1.00
8 in. Meadow Socket..	1.20
9 in. Meadow Socket..	1.25
8 in. Meadow Shank..	1.10
9 in. Meadow Shank..	1.15
Ladies' .....	.80
Boys' .....	.90
Square Top Onion.....	1.00
9 in. Mortar.....	1.25
10 in. Mortar.....	1.35

**Fig. 2. Manure Forks.**

5 Tine, Iron D Handle, Plain .....	1.75
5 Tine, Wood D Handle, Plain .....	2.10
5 Tine, Long Handled, Strapped .....	1.85
5 Tine, Iron D Handle, Strapped .....	1.85
5 Tine, Wood D Handle, Strapped .....	2.25
6 Tine, Iron D Handle, Plain .....	1.95
6 Tine, Wood D Handle, Plain.....	2.35
6 Tine, Long Handle, Strapped .....	2.00
6 Tine, Iron D Handle, Strapped .....	2.00
6 Tine, Wood D Handle, Strapped .....	2.50

**Fig. 3. Spading Forks.**

4 Tine, Iron D Handle, Strapped .....	1.60
4 Tine, Wood D Handle, Strapped.....	2.00
4 Tine, Long Handle, Strapped .....	1.60
5 Tine, Iron D Handle, Strapped .....	2.15
5 Tine, Wood D Handle, Strapped .....	2.60

**Fig. 4. Coke Fork.**

10 Tines, 1 1/4 in. between Tines .....	2.85
12 Tines, 1 1/4 in. between Tines .....	3.25

**Fig. 5. Scythe.**

Mailing Weight	
True Temper	\$1.75 3 lbs.
Black Hawk	1.85 3 lbs.

**Fig. 6. Bush.**

Scythes .....	1.65 3 lbs.
---------------	-------------

**Fig. 7. Scythe Snath.**

Ash .....	1.50
Bush Snaths .....	1.65

**Fig. 8. Steel Rake.**

12 Tooth, iron .....	\$0.65
12 Tooth, steel .....	1.00
14 Tooth, iron .....	.70
14 Tooth, steel .....	1.00
16 Tooth, iron .....	.75
16 Tooth, steel .....	1.15

Add postage for your zone.

**Fig. 9. Rake.**

2X, 3 Bow, Bent.....	\$0.90
No. 1, 3 Bow, Bent.....	.80
Lawn Rake, 28 Teeth, XX .....	1.00

**Fig. 10. Drag Rake...** 2.00

**Fig. 12. True Temper Axe with Handle .....** 2.00

**Fig. 13. Cant Hooks.**

3 1/2 ft. .....	2.60
4 ft. .....	2.75

**Fig. 14. Lawn Shears.**

Weight 8 lbs.....	4.25
-------------------	------

**Fig. 15. Grass Shears**

\$0.35 and .75
Add 10c for postage.

**Fig. 16. Lawn Shears.**

Weight 8 lbs.....	4.50
-------------------	------

**Fig. 17. Garden Trowel.**

No. 212 .....	.35
Mailing weight 2 lbs.	

**Fig. 18. Secor Weeder.** .15  
Postage 5c extra.

**Fig. 19.—Ideal Weeder.**

Postpaid .....	.30
----------------	-----

**Fig. 20. Watering Pot.**

4 qt. Weight 3 lbs...	.70
6 qt. Weight 3 lbs...	.80
8 qt. Weight 4 lbs...	.95
10 qt. Weight 4 lbs...	1.00
12 qt. Weight 6 lbs...	1.15
16 qt. Weight 8 lbs...	1.35

**Fig. 21. Cow Tie.**

3 1/2 ft. .....	.45
4 ft. .....	.50

Mailing weight each 3 lbs.

**Fig. 22. Garden Sets.**

1. 3 pieces, not shown .....	.25
2. 3 pieces, not shown .....	.35
Mailing weight each 4 lbs .....	.25
4 piece set, a fine warranted set .....	.275

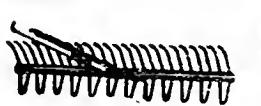
**Fig. 23. Cattle Card.**

Postage extra, 5c each.	
Small card, backed with cardboard .....	.30
Large card, backed with cardboard .....	.35

**Fig. 24. Rattan Brush**

Broom .....	
5 rows, 16 in., Rattan. 1.25	
5 rows, 16 in., Bass... 1.25	

Mailing weight each 5 lbs.



A



C



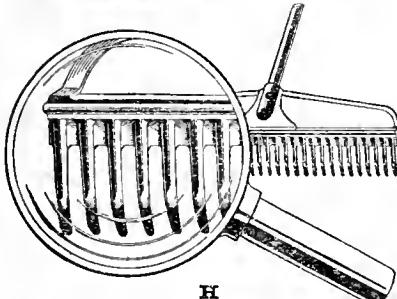
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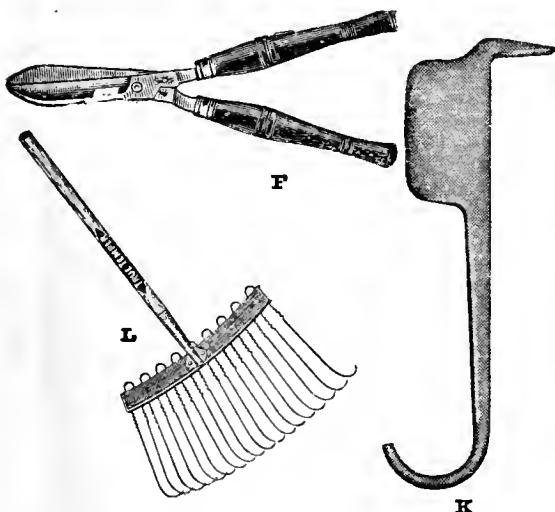
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G

Gumfinger  
Lawn  
Rake

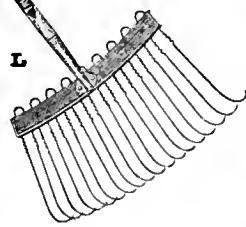
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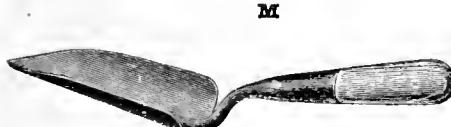
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L



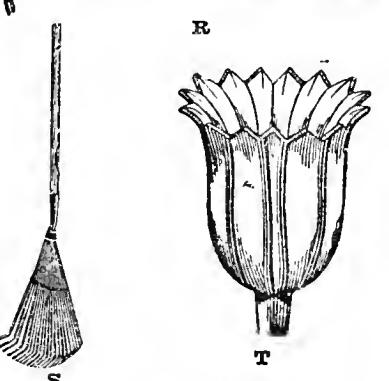
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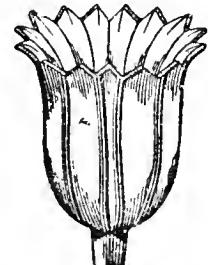
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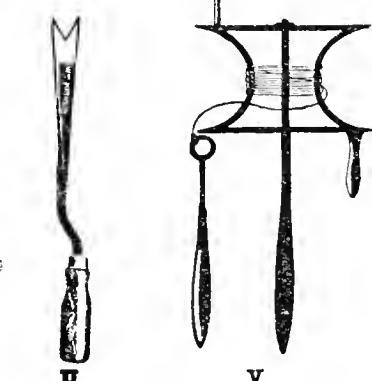
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R



T



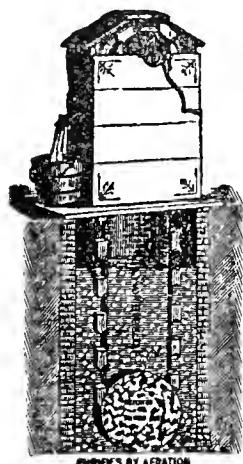
U

A. Queen Reversible Wire Lawn Rake with handle. A strong substantial lawn rake for all purposes. Price... \$1.00  
Mailing weight 4 lbs.  
B. Diamond Weeder. Price ..... 25  
Mailing weight 2 lbs.

C. No. 300 Garden Fork. Mailing weight 2 lbs..... 50  
D. Long Handled Steel Garden Trowel. Mailing weight 2 lbs. No. 2120 ..... 45  
E. Short Handled Steel Garden Trowel. Mailing weight 2 lbs. No. 211 ..... 75  
F. Hedge Shears. Mailing weight 4 lbs. ..... 2.25  
With notch for heavy work..... 2.50  
G. Turf Edger for lining walks, etc. Mailing weight 5 lbs..... 1.20  
H. Gumfinger Lawn Rake. The only rake with rubber teeth. 16 in. Mailing weight 3 lbs..... 1.00  
20 in. Mailing weight 4 lbs..... 1.25  
J. Peerless Fruit Picker. Mailing weight 2 lbs..... 50  
K. Steel Grafting Chisel. Mailing weight 1 lb..... 1.10  
L. No. RBR 18 Round Tooth Brume Rake. Mailing weight 5 lbs... 90  
M. Solid Steel Garden Trowel with offset shank. Mailing weight 2 lbs. ..... 90  
N. Sunnyside Hoe. The best strawberry hoe. Mailing weight 4 lbs. 1.00  
O. 6-in. Cheap Trowel. Mailing weight 2 lbs. No. 213..... 18  
P. No. H9 12-in. Grass Shear, bevel steel blades, mailing weight 2 lbs. ..... 65  
Q. Cast Dibble ..... 75  
With wood handle. Mailing weight 2 lbs. each..... 75  
R. Weeding Hook, 3 tine. No. E. Mailing weight 2 lbs..... 50  
S. No. FBR22 Flat Tooth Brume Rake. Mailing weight 5 lbs... 90  
T. Bouquet Holder, Iron. Mailing weight 3 lbs..... 0.65; 75  
Tin, painted green. Mailing weight 1 lb. ..... 15  
Glass, with holder. Mailing weight 3 lbs. ..... 90  
U. Asparagus Knife. Mailing weight 3 lbs. ..... 50  
V. Garden Reel.  
No. 1, small. Mailing weight 4 lbs. ..... 1.50  
No. 2, large. Mailing weight 5 lbs. ..... 2.50  
Garden Line, 96 ft. Mailing weight 1 lb. ..... 1.00  
W. Arlington Slide Hoe.  
6 in. ..... 2.25  
8 in. ..... 2.50  
9 in. ..... 2.75  
10 in. ..... 3.00

See inside front cover of catalogue for Parcel Post rates.

Add postage for your zone.



### The Bucket Pump

We will guarantee it to purify any well in five days, or we will refund the money. Cannot freeze. Can be set up without going below platform. Price for 10-ft. well \$12.50, for each additional foot of well add 50 cts.

Fig. 258

### Round End Stock Watering and Storage Tanks

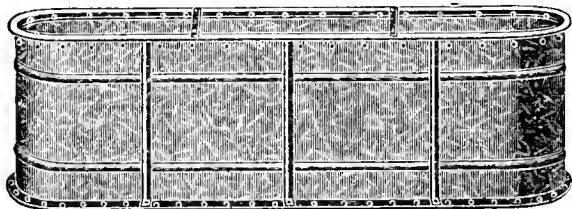


Fig. 261

Well braced. These prices f. o. b. Worcester or delivered by freight to your nearest station from the factory.

	Wd., ft.	Hgt., ft.	Lgt., ft.	Cap., bbls.	Wt., lbs.	Price
101	2	2	4	3	65	\$ 9.00
102	2	2	5	3 3/4	75	11.00
103	2	2	6	4 1/2	90	12.50
104	2	2	7	5 1/2	105	14.00
105	2	2	8	6 3/4	120	15.00
108b	2 1/2	2	6	5 3/4	110	13.50

### Worcester Lawn Swing Four Passenger

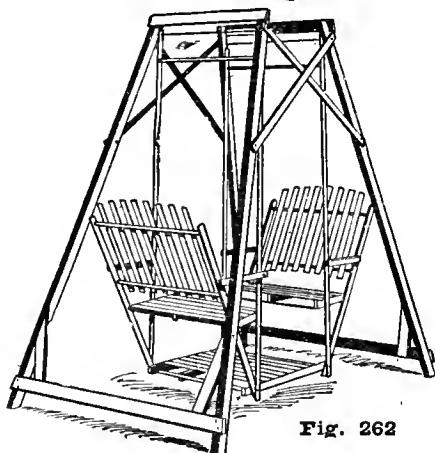


Fig. 262

The Worcester Lawn Swing is made of selected hardwood, thoroughly seasoned. The standard is made of four posts, 2x3 in., firmly braced and screwed together and is painted vermillion red before varnishing, the rest of the swing being varnished in the natural color of the wood. The platform has four full braces. The swing hangs on steel rods by steel hangers and may easily be removed from the standard and packed for shipment or storage.

Size open—8 ft. high, 5 ft. wide, 9 ft. spread. Price, \$13.00 each.



### House Pump

(6x6, 3 1/2-inch Bore)

7 ft. Porcelain-lined ..... \$11.25

7 ft. Unlined ..... 9.25

8 ft. Porcelain-lined ..... \$12.00

8 ft. Unlined ..... \$10.00

Tubing 4x4 \$0.35 per ft.

Couplings and bands for the above \$1.00 each.

### Stock Pump

Use 4 1/2x4 1/2 inch pipe, 40 cts. per foot. Couplings and bands for the above, \$1.25 each.

8 ft. lined ..... \$14.00

8 ft. plain ..... 12.00

Fig. 259

### Rubber Bucket Chain Pump

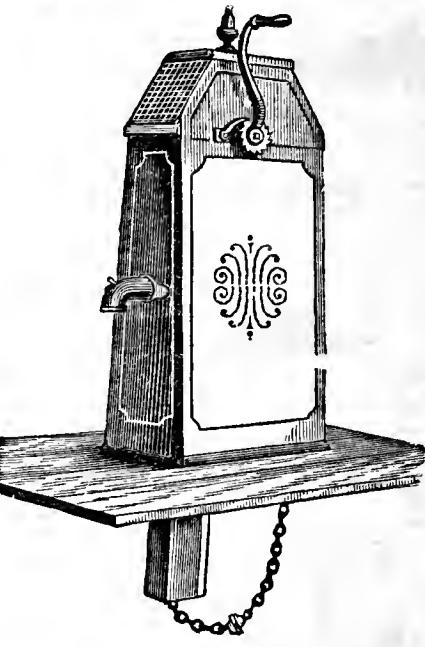


Fig. 260

They are the best cheap pumps. Price, Curbs, \$6.00 each. Chain (3 ft. to 1 lb.) 15 cts. per lb.

Wood tubing, 20 cts. per foot. Rubber Buckets, 15 cts. each.

### Tree Saws



Fig. 263

Simonds Hollow Back Pattern, 5 ft., \$3.25; 5 1/2 ft., \$3.55; 6 ft., \$4.10. Same as above, only two gauges thinner on back. 5 ft., \$3.65; 5 1/2 ft., \$4.00; 6 ft., \$4.40.

Common V-Tooth, 5 ft., \$2.20; 5 1/2 ft., \$2.40; 6 ft., \$2.60. Handles extra, 50 cts. pair.

### One Man Saws



Fig. 264

3 1/2 ft., \$3.50; 4 ft., \$4.00

### Saw Bucks

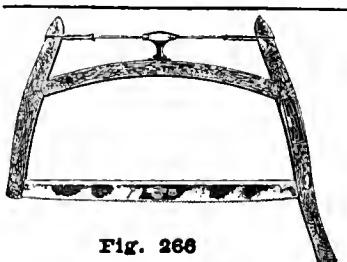
Extra grade saw buck. Made from heavy maple stock, folding. Can be closed and put away in a small space. Each, 75 cts.

### Saw Handles

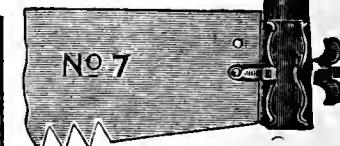
Triumph pattern. Clamps on end of saw with thumb nut. Per pair, 50 cts.

Loop pattern, loop made of welded steel. Per pair, 65 cts.

Fig. 265



### Wood Saws



Great Northern wood saw. Natural wood, narrow blade. \$1.75.

No. 106. Red frame. 2 in. blade. \$1.25.

### Garden Wheelbarrow 8 SPOKE WOOD WHEEL

These wheelbarrows are made specially for us, are well constructed throughout, of hard wood, and strongly ironed. Finished with two coats of paint and one coat of varnish. This, No. 64, is the best garden barrow on the market.

No. 64, Barrow (as shown), painted green. Price \$6.75 each.  
No. 5, New special garden barrow (not shown), painted red with steel wheel. Price \$5.75 each.

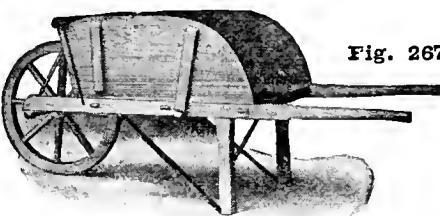


Fig. 267

### General Utility Steel

#### Tray Barrow

An exceptional Barrow for general use around the home or garden.

No. 21. Price, \$4.75 each.



Fig. 268

#### Tubular Steel Barrow

Tubular steel barrow, with pressed steel bowl, and steel frame; double braced and made for heavy work. 3 1/2 cu. ft. No. 25. Price, \$7.75 each.

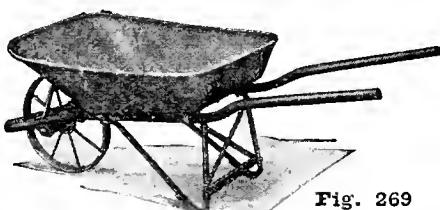


Fig. 269

#### Contractor's Angle Leg Barrow

The very best all-round contractor's barrow made. Tray 27x32 at top. Frame of hard wood and thoroughly braced and bolted. 16 in. steel wheel; tire, 1 3/4 x 1 1/2; 5/8 in. axle. Heavy rod rolled in edge. Wt. 70 lbs. each. No. 17B. Price, \$7.25 each.

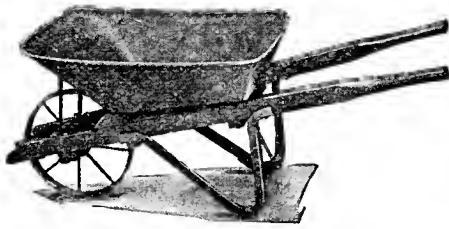


Fig. 270

### Picks, Mattocks, Shovels



Fig. 271



Fig. 272

No. 8 Con'tors' Picks... \$1.10  
No. 9 Con'tors' Picks... 1.35  
No. 7 Railroad Picks... 1.00  
No. 8 Railroad Picks... 1.10  
Long Cutter Mattocks... 1.00  
Pick Mattocks... 1.00  
Bog Hoes... 1.00

#### Steel Bars

Pound  
Wedges, Splitting... \$0.12  
Crow Bars... .10



Fig. 273

#### Our Best Shovels

Our Best Shovels are plain back shovels with Northern Ash X grade handles and will give you the best of service. We also carry the Bantam and Fox one piece solid shank Heat Treated shovels manufactured by the American Fork & Hoe Company.

No. 2. Our Best Shovels, short or long handle, rd. or sq. \$1.50  
No. 3. Our Best Shovels, short or long handle, rd. or sq. 1.50  
No. 2. Bantam Shovels, short or long handle, rd. or sq. 1.35  
No. 3. Fox Shovels, short or long handle, rd. or sq.... 1.40  
No. 2. Bantam Spade, short or long handle..... 1.50

### The Handiest Implement on the Farm



Fig. 274

#### A Good Stone Boat

The front is of high-grade tank quality carbon steel, 29 inches or 34 inches wide, firmly bolted and braced to the raves and bottom boards, which are of bone dry hardwood. The raves are painted red and varnished; the bottom boards are oiled with the best quality linseed oil.  
29-inch Boat. Length 6 feet 1 inch. Weight 138 lbs.... \$15.00  
34-inch Boat. Length 7 feet 1 inch. Weight 178 lbs.... 16.50

#### Steel Fronts

29-inch with bolts.	Weight 27 lbs.....	5.25
34 inch with bolts.	Weight 32 lbs.....	5.50
40-inch with bolts.	Weight 37 lbs.....	6.25

### All Wood Boat



BOAT COMPLETE

7 ft. long.

All Wood, \$13.50

Fig. 275

### Boat Head

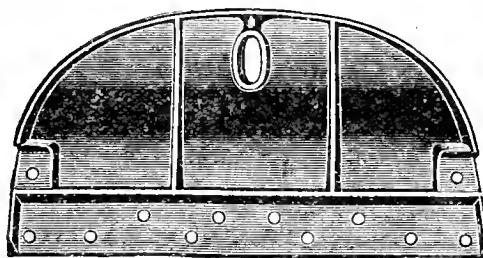


Fig. 276

Cast Iron—Price, \$6.50; Bolts, 85 cts. per set.



Fig. 277

#### KNOT KLIPPER AXES

2 1/4, 3, 3 1/4 and 3 1/2 lbs. Absolutely guaranteed. \$1.75 each.

Handled with extra 28-in. handle, \$2.25.

Double Bit, \$2.25.

Double Bit Handled, \$2.50.

#### TRUE TEMPER AXES

28" French Handle..... \$2.00

28" Handle (a good cheap axe)..... \$1.50

#### BOYS HANDLE AXES

26" Handle..... \$1.25

19" Handle..... \$1.25

HOUSE AXES

19" Handle..... \$1.25

### Steel Scraper with Runners

No. 1 carries 7 ft of earth..... \$11.50

No. 2 carries 5 ft. of earth..... \$11.25

No. 3 ..... \$10.75

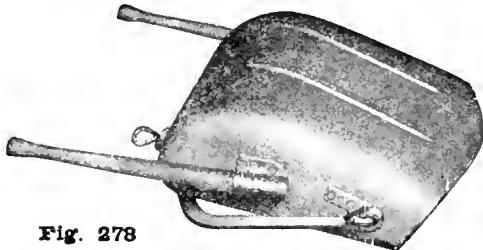


Fig. 278

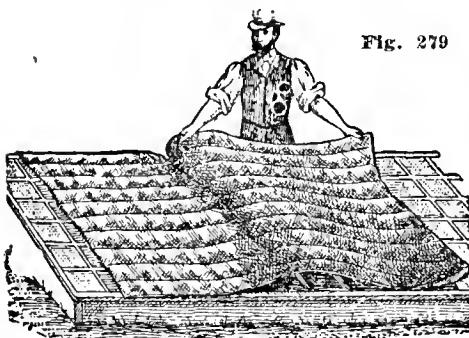
**Burlap Hotbed Mats**

Fig. 279

Made of burlap filled with hair felt. 76x76. Preferred by many market gardeners to the straw mats. Each, \$3.25. Waterproof, 76x76. Each, \$4.50. Straw hot bed mats (not shown). 6x6. Each, \$2.75.

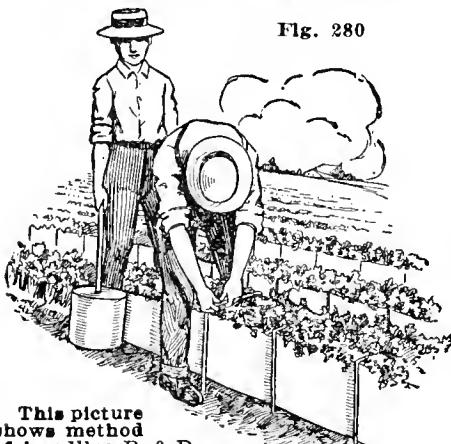
**Celery Bleaching Paper**

Fig. 280

This picture shows method of handling R. & D. Bleacher. No heavy boards to carry or dirt to shovel.

A Bleaching material that saves TIME, LABOR, MONEY. An improvement over boards and other bleaching material.

Rolls are 10 inches and 12 inches wide. Rolls contain 100 feet and weigh only 30 pounds.

10-in. (100 running feet) per roll, \$3.10. 12-in. per roll, \$3.50.

A tasteless, odorless, indestructible waterproof material especially prepared to withstand extremes of heat and cold.

Price includes wires or arches.

**Richmond Plant Tubs**

Painted green, rd. wire hoops.



Fig. 281

No.	Top Dia.	Bottom Dia.	Depth	Weight, lbs.	Price
1	6	5	6	1	\$0.55
2	7	5	7	1 1/2	.60
3	8	6	8	2 1/2	.65
4	9	7	9	2 3/4	.70
5	10	7 1/2	9	3	.80
6	11	8 1/2	10	4	1.00
7	12	9	11	4 1/2	1.20
8	13	10	12	5 1/2	1.50
9	14	11	13	7	1.70
10	15	11 1/2	14	8	1.85
11	16	12 1/2	15	9	2.10
12	17	13 3/4	16	12	2.50

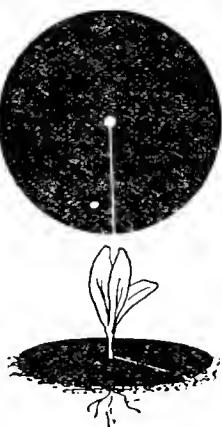
**A. B. C. Plant Protector**

Fig. 282

This illustration shows the A. B. C. Tarred Felt Pad used to protect Cabbage, Tomato and other plants from cut-worms, maggots, and insects that will destroy plants. Easy to apply. They lie on the top of the ground and can be used either for outdoor or greenhouse use. Excellent for protecting carnations from cut-worms. Especially adapted for Cabbage and Tomato outside. They will save practically the entire crop of Cabbage if used at the time plants are set. The cut-worms and other insects do not

like the smell. Only the best tarred felt is used and great care is taken to accurately cut the pads so no defects will allow the fly to deposit the egg, which does the damage. Packed 1,000 in good strong fibre box.

Price, 1,000, mailing wt. 10 lbs.....\$2.50

**Plant Trellises**

Postage, extra. 10c



Fig. 283  
20-in. stick.  
3 1/4 - in. wide.  
Each ...\$0.25

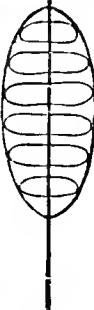


Fig. 284  
24-in. stick.  
7 1/4 - in. wide.  
Each ...\$0.65



Fig. 285  
24-in. stick.  
5 - in. wide.  
Each ...\$0.35

**Plant Sticks**

For pot or garden use: square, painted green.

Each 100

1 ft.	\$0.01 1/2	\$1.30
1 1/2 ft.	.02	1.50
2 ft.	.03	2.25
2 1/2 ft.	.05	3.25
3 ft.	.07	6.00
3 1/2 ft.	.09	7.50
4 ft.	.10	9.50
5 ft.	.16	14.00
6 ft.	.18	15.50

**VERANDA TRELLIS**

High	Wdth	Each
3 ft.	10 in.	\$0.95
4 ft.	11 in.	1.20
5 ft.	18 in.	1.70
6 ft.	18 in.	2.00
8 ft.	18 in.	2.70
10 ft.	20 in.	3.35
12 ft.	20 in.	4.00

Get prices for fan Trellis.

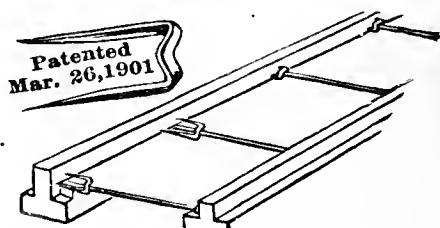
**"Peerless" Glazing Points**

Fig. 288

PEERLESS GLAZING POINTS. Improved Van Reyper. Weight per box, 2 lbs. Per box, 1,000 points.....\$0.75

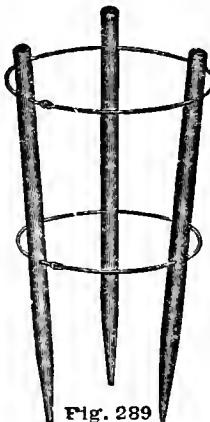


Fig. 289

**Tomato Supports**

34 in. high, 20 in. in diameter at the top.

Price, 35c each, \$4.00 per doz.

**Tree Labels**

Fig. 290

Copper wire, 3 1/2 inches. Weight, 5 lbs. Per 1,000 .....

**Pot Labels**

4 inch	Wt. per 1,000	100	1,000
4 lbs.	\$0.25	\$2.15	\$2.35
6 in.	5 lbs.	.30	

**Garden Labels**

8 in.	Wt. per 1,000	100	1,000
14 lbs.	\$0.80	\$7.00	\$7.00
10 in.	17 lbs.	.90	8.25

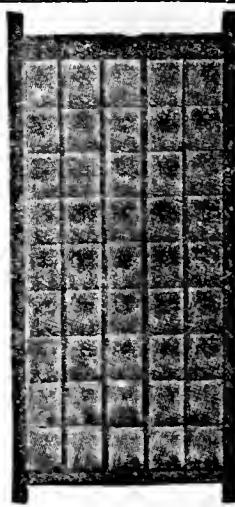
**Hot Bed Sash**

Fig. 291

3x6x1 1/4 in., with sides projecting, glazed with thick glass painted two coats, \$5.50 each; in lots of 6 \$35.00 doz.

Can furnish unglazed and unpainted sash.

\$3.25 each; in lots of 6, \$36.00 doz.



Add postage for your zone. See inside front cover.

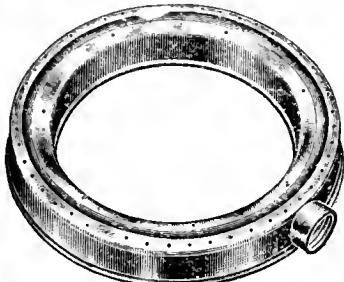


Fig. 292  
The Ring Lawn Sprinkler

Our "Ring" Lawn Sprinkler is made entirely of sheet brass and stamped into the form shown. Measures about 8 inches in diameter. The "Ring" throws a fine mist; covers a large circle and can be conveniently moved about without shutting off the water. Cannot be forced apart, even under the heaviest pressure. Weight, 1 lb. Price, 75c.

### Little Midget Sprayer



Fig. 294  
This is a small sized powerful atomizer for use in the home or poultry house. Very convenient for applying dust layers or disinfectants. Weight, 3 lbs. 25 cts. each.



Fig. 295  
Used largely for spraying cattle with the different mixtures on the market, to keep off the flies; spraying Paris Green and other insecticides in potato vines, shrubs, small trees, house plants, livestock and poultry. Price, tin, 60 cts.; with galv. cup, 75 cts.; with brass cup, \$1.00. Weight, 3 lbs.

### Garden Hose



Fig. 293

Bull-Dog Hose. A 7-ply hose unconditionally guaranteed by the manufacturers, The Boston Woven Hose and Rubber Co.  
Bull Dog, 7-ply,  $\frac{5}{8}$  in., per foot, 16 cts.  
Goodluck, 6-ply,  $\frac{5}{8}$  in., per foot, 12 cts.  
Leader, 5-ply,  $\frac{1}{2}$  in., per foot, 9 cts.  
Leader, 5-ply,  $\frac{3}{4}$  in., per foot, 10 cts. in 50 ft. lengths; 11 cts. per ft. in 25 ft. lengths.  
Bull Dog spray hose,  $\frac{1}{2}$  in. for power spraying up to 300 lbs. pressure, 26 cts. per ft. not coupled.  
Tiger Spray hose,  $\frac{1}{2}$  in. for hand power, 17 cts. per ft. not coupled.  
Long Tail Couplings for spray hose, 75 cts. each.



Black Maxecon. This is the best lawn hose of the B. F. Goodrich Rubber Co. and is featured by them.  $\frac{5}{8}$  in., per foot, 11 cts.  
Rib Cord.  $\frac{5}{8}$  in., per foot, 10 cts.

DeLuxe. Green Golf hose,  $\frac{3}{4}$  in., per foot, 20 cts.

### Little Wonder Rain King Nozzle



Fig. 305

Outsprinkles all other makes with solid stream and intermediate or misty sprays. Just a touch of the finger on the control gives you any desired spray from a solid stream to cloud-like mist. Made of all brass, leak-proof and wear-proof. The most efficient, easiest handling hose nozzle made and will outlast all others.

Price ..... \$0.85

### Rip Sprinklers

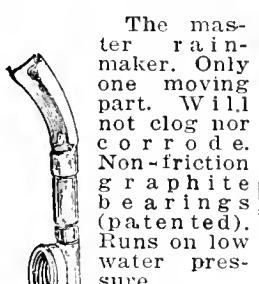


Fig. 297.  
Spike type.  
Price, \$1.00  
postpaid.

Fig. 297A.  
Double connection type.  
Fig. 297A  
Price, \$1.25  
postpaid.



Fig. 298  
COOPER HOSE MENDER. (All brass.)  $\frac{1}{2}$ -in. and  $\frac{3}{4}$ -in., 10 cts. each; 90 cts. doz. Postpaid.

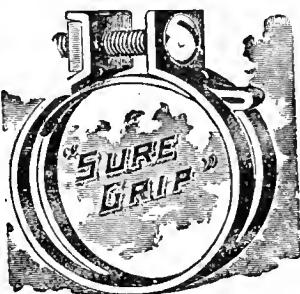


Fig. 299  
SURE GRIP HOSE BAND.  $\frac{1}{2}$ -in. and  $\frac{3}{4}$ -in., 8 cts. each; 2 for 5 cts. Postpaid.

### Boston Spray Nozzle

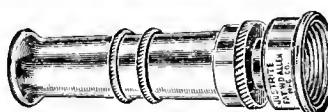


Fig. 300

Will throw a spray, a large or a small solid stream. Price, 50 cts. 55 cts. postpaid.

### The Majestic "A" Rain King Sprinkler

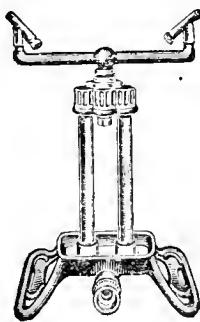


Fig. 301

Stands taller than the Standard Rain King to throw water over tops of nearby plants. Bird bath base attracts feathered songsters. 15 inches high. Price ..... \$6.50  
Weight 12 lbs.

### The A-1 Rain King

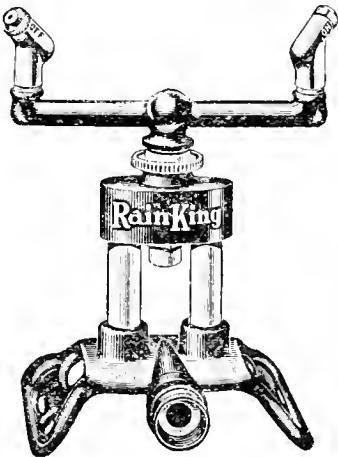


Fig. 302

Amazing value in this sensational New Rain King. Height 9  $\frac{1}{2}$  in.; Weight 6 lbs. Price, \$3.50.

### Standard Rain King Lawn Sprinkler



Fig. 304

It is the same famous Standard Rain King Sprinkler in every respect. Waters small or large lawns. Height 6 in.; Weight 4 lbs. Price, \$2.75.

### "Dollar" Lawn Sprinkler

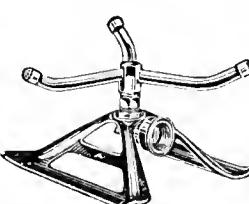


Fig. 303

The Dollar Sprinkler stands 4  $\frac{1}{2}$  inches high, base 6  $\frac{1}{2}$  inches by 7  $\frac{1}{2}$  inches. Arms are 4  $\frac{1}{2}$  inches long. The head and arms are of brass, base is finished in Duco. Price: \$1.00. Weight 3 lbs.

# IDEAL - POWER - LAWN - MOWERS

## Ideal "Twenty" Power Mower

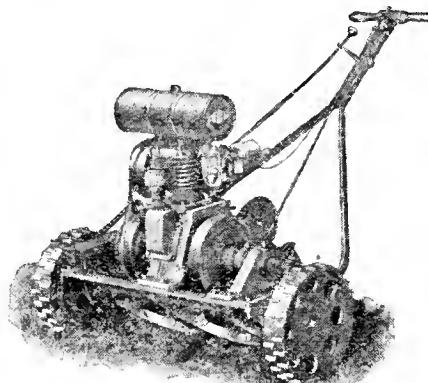


Fig. 307

The Ideal "Twenty" is a power mower that instantly meets a fast growing demand for a thoroughly reliable machine for use on grounds too large to be conveniently cut with hand mowers.

Width of cut 20 inches, wheel type.

Price ..... \$205.00

Ideal 25-inch Power Mower, wheel type.

Price ..... \$290.00

## Ideal Junior Lawn Mower

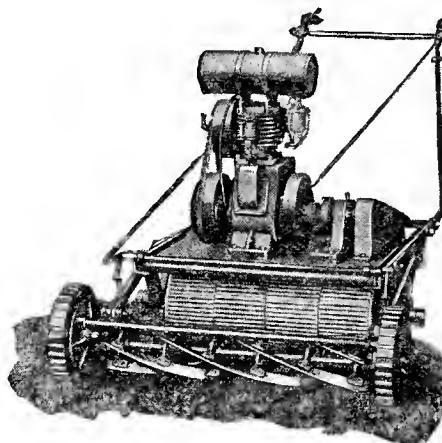


Fig. 308

The Ideal Junior will nicely care for two or three acres of grass and will prove a paying investment in caring for lawns as small as 150 to 200 feet square. It is a machine especially well adapted to the work in cemeteries.

Width of cut 22 inches, roller type.

Price ..... \$275.00

Ideal 30-inch Power Mower, roller type.

Price ..... \$370.00

## Vigoro Spreaders



Fig. 308

The Vigoro Spreader, Fig. 308, is an easy running sturdy machine, built on the forced-feed principle. Every home owner needs a spreader to make his gardening more successful. It applies grass seed as well as fertilizer at a uniform rate.

14 in. Junior 20 lb. Cap. .... \$ 5.95  
24 in. Standard 65 lb. Cap 10.45  
36 in. Special 100 lb. Cap. 16.25  
Fig. 308A, 14 in. midget  
without wheels ..... 1.95



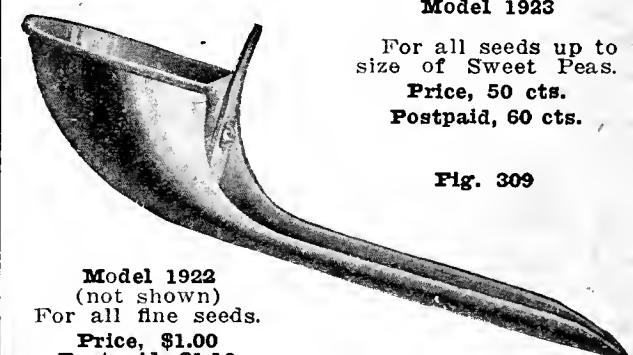
Fig. 308A

## Sowrite Seed Sowers

### Model 1923

For all seeds up to size of Sweet Peas.  
Price, 50 cts.  
Postpaid, 60 cts.

Fig. 309



Model 1922  
(not shown)  
For all fine seeds.  
Price, \$1.00  
Postpaid, \$1.10

## National Eezy Wear Garden Gloves



Fig. 310

ALL LEATHER  
SOFT AS KID

DIRTPROOF—DURABLE—WASHABLE

Four sizes: "SMALL" and "MEDIUM" for Women, "MEDIUM" and "LARGE" size for Men. Price, 75 cts. a pair—2 pairs for \$1.40. This is the first time we have ever offered an all-leather garden glove with these special qualities at such a low price. Postpaid.

## Easy Emptying Grass Catcher

Galvanized sheet steel bottom, heavy weight duck sides. The sides are firmly fastened to the bottom by three folds of steel. This protects against any possibility of the canvas ripping along the bottom edge. The last fold in the metal stands upright, and holds the bottom rigid.

### Price

16-17G	For 12-17 in. Mowers ....	\$1.25
18G	For 16-20 in. Mowers ....	1.50
10G	For 12-18 in. Mowers ....	1.75
12G	For 16-22 in. Mowers ....	2.00

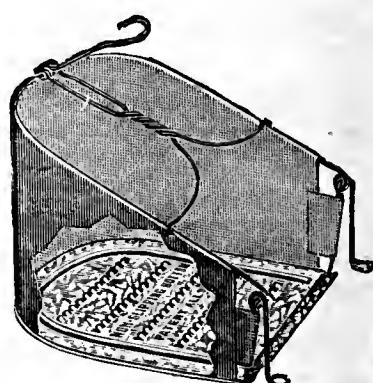


Fig. 311

# Hand Lawn Mowers

## Knollwood Grand

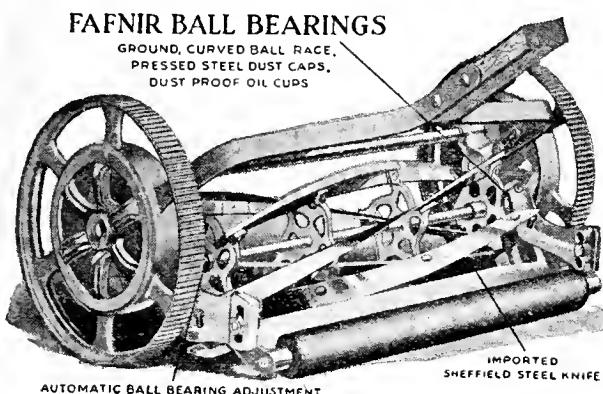
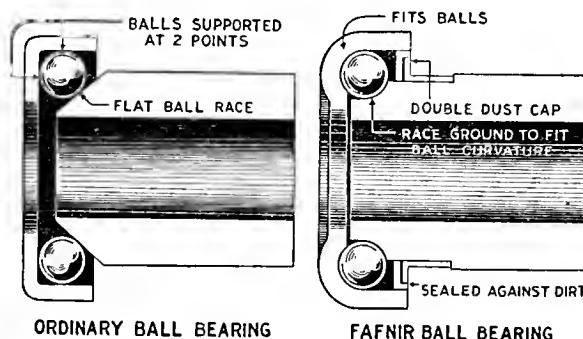


Fig. 312

This machine has 11-inch wheels, five crucible steel drawcut wiper blades revolving on Fafnir sealed and ground race ball bearings as illustrated. The underknife is constructed of the finest imported Sheffield steel and has a heavy lipped edge. This machine is excellent for parks, cemeteries, large lawns and private homes where the very best in lawn mowers is required. Price, 16 in., \$13.00; 18 in., \$14.00; 20 in., \$15.00.

## Fafnir Ball Bearings



ORDINARY BALL BEARING

FAFNIR BALL BEARING

The Fafnir Sealed Ball Bearings illustrated above are used in all our lawn mowers except the Little Giant. In this perfected type of ball bearing, the wear on the cone is eliminated by having the race **ground to fit the bearing**. As a result you get a machine that is very easy to push,—that will stay in adjustment,—in contrast to an ordinary ball bearing lawn mower which often loosens up because of wear on the old type ball bearing cone.

## The New Little Giant

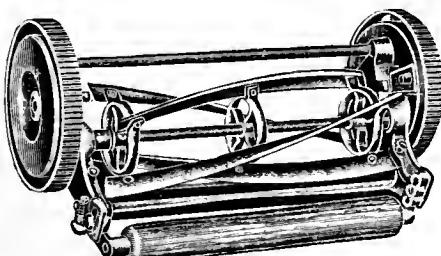


Fig. 315

This is a new mower with us this year. The New Little Giant is equipped with eight-inch closed wheels, four crucible steel drawcut wiper blades, self adjusting ball bearings. A very inexpensive machine that will give years of satisfactory service. Price, 12 in., \$6.00; 14 in., \$6.50; 16 in., \$7.00; 18 in., \$7.50.

## Knollwood Junior

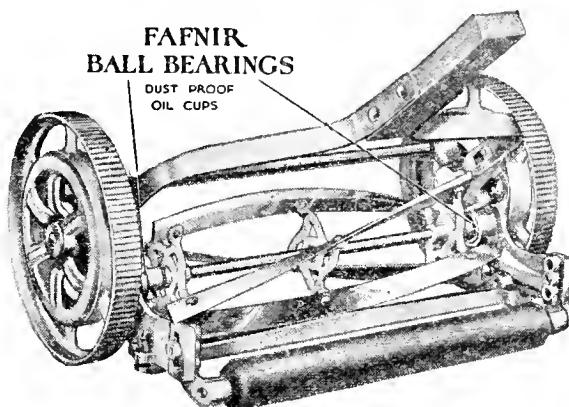


Fig. 313

A light weight and sturdy machine that will cut easily. It has 10-inch wheels, four crucible steel drawcut wiper blades mounted on the Fafnir, nearly wearless, ball bearing. A glance at the illustration of the Fafnir ground race ball bearings on this page will show their superiority over the ordinary type of ball bearings. The under knife is constructed of high grade special tempered steel. This machine is very popular with gardeners and home owners where a high grade lawn mower is required. Price, 14 in., \$9.50; 16 in., \$10.25; 18 in., \$11.50; 20 in., \$12.00.

## Rossmoyne

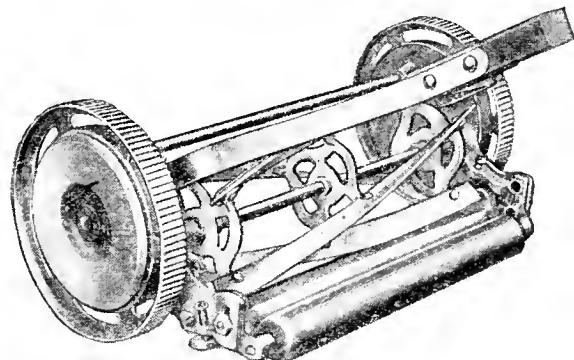


Fig. 314

The Rossmoyne is now equipped with the unexcelled Fafnir, practically wearless, sealed ball bearings. Nine inch wheels of the closed type, four crucible steel drawcut wiper blades honing across the heavy lipped under knife of special tempered steel insures a long lived lawn mower. It is a medium priced high grade machine. Price, 14 in., \$8.00; 16 in., \$8.75; 18 in., \$9.50.

## The Capitol Lawn Trimmer

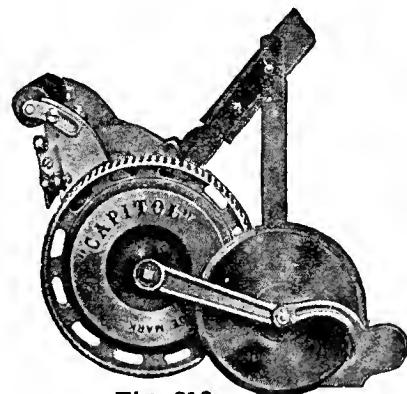


Fig. 316

The Capitol Lawn Trimmer and Edger does what lawn mowers leave undone. It trims and edges your lawn with remarkable speed and perfection; the shield over the blades protects the flowers. A trial will convince you, as it has thousands of others, that the day of shears, clippers, etc., is past. Four crucible steel blades, six inches in length, tempered in oil, swivel bushings, double adjustment. Price, Plain, \$9.00; Complete with Edger, \$10.00.

## Standard Pots, Pans and Saucers

Inside measurement, width and depth equal

In.	POTS			SAUCERS			BOTH		
	Ea.	Doz.	100	Ea.	Doz.	100	Ea.	Doz.	100
3	\$0.05	\$0.35	\$2.50	\$0.05	\$0.30	\$2.35	\$0.08	\$0.60	\$4.35
4	.07	.55	4.00	.05	.35	2.95	.10	.80	6.25
5	.10	.95	7.00	.05	.50	3.90	.18	1.25	9.85
6	.12	1.25	10.00	.07	.70	5.85	.17	1.75	14.00
7	.20	2.25	17.50	.10	.95	7.80	.25	2.75	22.00
8	.30	3.25	25.00	.12	1.25	10.72	.37	4.00	32.00
9	.40	4.25		.18	1.80		.52	5.50	
10	.60	6.25		.20	2.25		.75	7.50	
11	1.00			.25			1.15		
12	1.25			.28			1.35		
13	1.35			.35			1.55		
14	1.75			.45			2.00		
15	2.75			.55			2.85		
16	3.00			.75			4.20		



Fig. 318

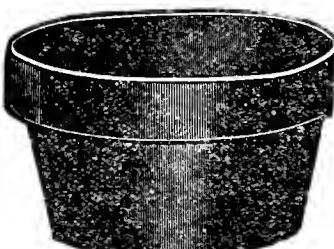


Fig. 319

Positively no flower pots or saucers sent parcel post.

## BULB PANS

	Each	Doz.	100
6 inch	\$0.15	\$1.50	\$10.50
7 inch	.25	2.25	17.50
8 inch	.35	3.50	25.00
9 inch	.50	5.00	39.00
10 inch	.60	6.00	52.00
12 inch	1.00		
14 inch	1.75		

## FERN PANS

	Each	Doz.	100
4" x 1 7/8"	\$0.08	\$0.80	\$ 7.00
4 3/4" x 2 1/8"	.10	1.00	8.00
5 1/2" x 2 1/4"	.15	1.50	11.00
6 1/4" x 2 1/2"	.18	1.75	13.00
7" x 2 5/8"	.20	2.25	15.00
8" x 3 1/8"	.25	2.75	21.00
9" x 3 1/4"	.30	3.25	25.00

## Neponset Waterproof Paper Flower Pots



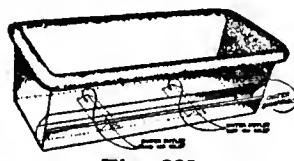
These pots are nested and packed in cases of 1,000 each, except 4, 5 and 6-inch sizes, which are put up in cases of 500 each.

	Wt. per	1,000 lbs.	100	1,000
2 1/4 inch pots	12	\$0.50	\$ 3.60	
2 1/2 inch pots	16	.60	4.15	
3 inch pots	24	.75	5.65	
3 1/2 inch pots	34	.95	7.20	
4 inch pots	46	1.25	9.20	
5 inch pots	74	2.00	14.25	
6 inch pots	102	2.50	19.00	

Fig. 320

## The Box That Makes the Plant Grow

**GALVANIZED STEEL WINDOW BOX**, painted green with water receptacle—an ornament to any house. Also used with best results in the cemetery or for Living Bouquets. 30 in. long, 8 1/4 in. wide and 6 1/4 in. deep ..... \$1.75  
36 in. long ..... 2.25



Add postage for your zone. See inside front cover.

## Dietz Lanterns

## "LITTLE WIZARD"



(Cold Blast)  
11 1/2 in. "Little Wizard"  
Loc-nob  
Globe, 6 C.  
Power.  
Burns 18  
hours.  
Bright tin.  
Weight, 3  
lbs. Price,  
\$1.00.

Fig. 322

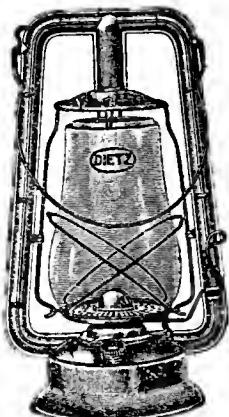


Fig. 324

"MONARCH" 13 1/4 in. high,  
5/8-in. wick, "Fitzall" (No. 0)  
Globe. 4 C. Power. Burns 19  
hours. Bright tin. Wt., 3 lbs.

Price, 95 cts.



Fig. 323

ROADSTER WAGON. with  
Ruby Rear Signal (Cold Blast).  
12 inches high. 5/8-in. Wick.  
"Junior" Globe. 10 C. Power.  
Burns 18 hours. Black enamel  
finish. Weight, 4 lbs.  
Price, \$1.75

## KRISTEE RUBBER FLOWER POT TRAYS

Fig.  
326

Made of a fine grade of rubber, of attractive green color. The tray is extremely neat in appearance, absolutely waterproof and sweat-proof.

Size	Weight	Price
4-in.	2 oz.	\$0.15
6-in.	4 oz.	.25
8-in.	10 oz.	.50

## Butter Jars and Covers



Fig. 328

The ideal package for keeping butter and putting down eggs in water glass; also fruits and vegetables.

1 gal....	\$0.40	5 gal....	\$1.40
2 gal....	.60	6 gal....	1.60
3 gal....	.90	8 gal....	2.42
4 gal....	1.10	10 gal....	2.86



Fig. 329



Fig. 327

## Fruit Jars

## Atlas E-Z Seal

Doz.

2 qt....	\$1.65
1 qt....	1.25
1 pt....	1.00
1/2 pt....	.95

## Atlas Mason

Doz.

2 qt....	\$1.45
1 qt....	1.00

1 pt.... .90

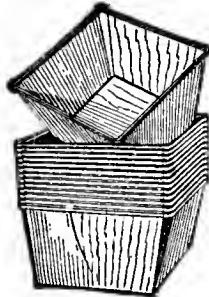


Bean  
Pots  
with  
Cover

Fig. 329

1 qt., wt. 4 lbs., 25 cts.; 2 qt., wt. 5 lbs., 30 cts.; 3 qt., wt. 8 lbs., 35 cts.; 4 qt., wt. 8 lbs., 40 cts.

## METAL RIM ONE QUART BERRY BASKETS



No sharp or rough points from stapling or tacks.

Shows more surface on top and give fruit better appearance.

Each crate contains 2,000 baskets. Price, \$7.50 per M.; per 100 \$1.00; add for postage, 25 cts. per 100.

Fig. 330

## VERBENA AND PANSY BASKET

With Wire Handle.

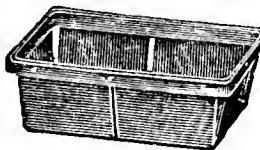


Fig. 332

Used largely for pansies; 1,000, \$22.50; 100, \$2.35; postage extra, 30 cts. per 100.

## FOUR-QUART VIRGINIA TILLS

For roadside containers. Per 1,000, \$22.50; per 100, \$2.40; postage extra, 50 cts. per 100.

## THREE-QUART MISSISSIPPI TILLS

Per 1,000, \$21.00; per 100, \$2.40; add for postage 35 cts. per 100.

## TWO-QUART MISSISSIPPI TILLS

Per 1,000, \$19.00; per 100, \$2.25; add for postage 35 cts. per 100.

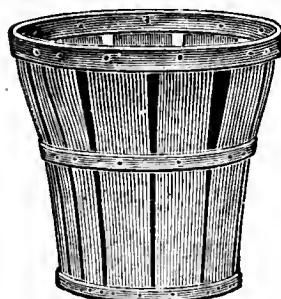


Fig. 333

## STANDARD FRUIT BASKETS

Each stave on the basket is secured to the hoops by six double pointed staples.

16 quart, per M.	\$62.50
Per 100 .	6.75
8 quart, per M.	60.00
Per 100 .	6.50
4 quart, per M.	55.00
Per 100 .	6.00

## RAISED BOTTOM

16 quart, per M.	\$68.00
Per 100 .	7.25

## FOUR-QUART PONY BASKET



Fig. 334

4-qt. with wooden bottom. 100, \$6.50; 1,000, \$60.00.

## ONE QUART ALL WOOD BERRY BASKETS

D. G. Brand, per M .....	\$8.00
Economy Brand, per M .....	\$7.50
Close Corner (for blueberries), per M .....	\$9.00
Oval Pints, per M .....	\$7.50
All of above \$1.00 per 100 except close corner, \$1.10 per 100; add for postage 25 cts. per 100.	



Fig. 331

## POUNDED ASH BASKET

Hand made baskets. Made of pounded ash, all clean white stock. Will outlast the common machine made baskets. Order one of these baskets and be convinced you are getting the best basket in the market at the present time. Prices: Fig. 338	
1 bushel .....	\$1.75
½ bushel (drop bail) .....	1.40

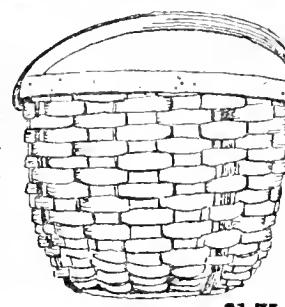
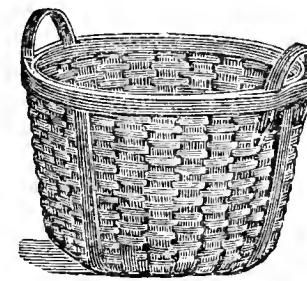


Fig. 338

## STRAPPED BUSHEL BASKET

Size	Price
4 bu...	\$3.25
3 bu...	2.75
2 bu...	2.00
1½ bu...	1.60
1 bu...	1.35

Fig. 339



## OXFORD OAK BASKET

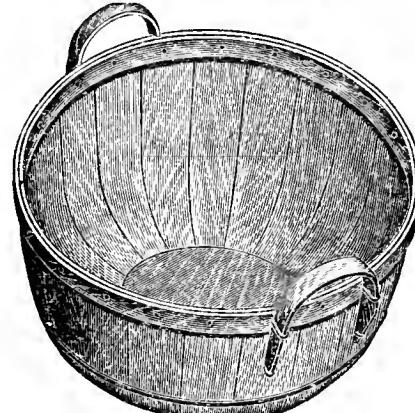


Fig. 335

1 bushel, as above.....	\$1.00
½ bushel, drop handle.....	.75
¼ bushel, drop handle.....	.65

A very serviceable basket, and the  $\frac{1}{2}$  bushel is the best basket for picking peaches, as it does not bruise the fruit.



Fig. 336

No.	Dimensions	Price
2	26x16x9	\$1.55
3	28x18x10	1.75
4	30x20x10	2.00
5	32x20x10	2.40

## BAMBOO GROCERS' DELIVERY

Extra Heavy Fig. 337



No.	Size	Dimensions	Price
1	pk.	18x10x6	\$1.00
2	½ bu.	20x12x6 $\frac{1}{2}$	1.10
3	$\frac{3}{4}$ bu.	23x13x7	1.15
4	1 bu.	24x15x7 $\frac{1}{2}$	1.35
5	1½ bu.	25x16x8	1.50

## (With Block)

(With Wood Handle)

Same dimensions and prices as above.

## DIAMOND MARKET BASKET



Fig. 341

## COVERED LUNCH BASKETS

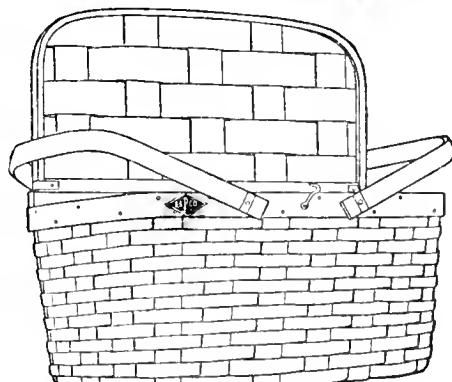


Fig. 342

1 9 $\frac{1}{2}$ x 6 x 5 . . .	\$0.65
2 11 x 6 $\frac{1}{2}$ x 6 . . .	.75
3 11 $\frac{1}{2}$ x 7 x 6 $\frac{1}{2}$ . . .	.80

4 14 x 8 $\frac{1}{2}$ x 6 $\frac{1}{2}$ . . .	\$0.90
5 15 $\frac{1}{2}$ x 9 x 7 $\frac{1}{2}$ . . .	1.05
6 17 x 10 x 8 . . .	1.20

## Worcester Senior Cider Mill

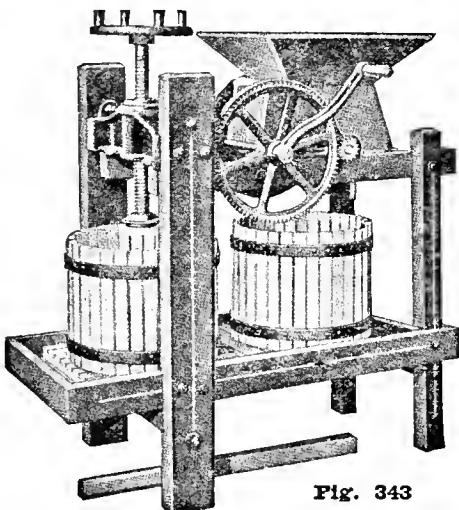


Fig. 343

The most up-to-date and best mill on the market.

Meets the demand where large capacity is wanted. Powerfully built with heavy hardwood frame strongly bolted together, best grade of iron and steel in working parts. Furnished with two tubs 14 in. high by 17 in. diameter, fitted with 2 cranks.

This mill, as are all of the Worcester Mills, has "POSITIVE FORCE FEED." The grinding mechanism consists of a hardwood cylinder in which is securely imbedded a series of steel knives for cutting and grating the

fruit. Capacity, 6 to 12 bbls. of cider per day. Weight, 300 lbs. Price, \$41.00.

5% Discount for Cash

## MEDIUM AND JUNIOR MILLS

Both the Junior and the Medium Mills are built on the same principle as the Senior Mill pictured above and have proven absolutely satisfactory in every way.

The Medium is furnished with two tubs 12 1/4 x 14 1/2; capacity, 4 to 6 bbls. per day. Weight, 185 lbs. Price, \$29.00.

5% Discount for Cash

The Junior mill with two tubs 10 1/2 x 11; capacity, 2 to 4 bbls. per day. Weight, 145 lbs. Price, \$23.50.

5% Discount for Cash

Worcester Oak Kegs and Barrels  
(Paraffined)

Fig. 345

New Kegs, every one warranted O.K.

	Each
5 gal.	\$1.50
10 gal.	2.25
15 gal.	2.75
20 gal.	3.00
25 gal.	3.25
30 gal.	3.75
50 gal. 8 Hoop.	4.50

## No. A Fruit Press



Fig. 346

No. A Fruit Press meets the demand of those who have a comparatively small amount of fruit to press and is designed for use on a bench or table, an excellent press for home use.

The Frame is made of high grade hardwood which assures a strong, durable, substantial press at a low cost.

Capacity of tub about eight quarts.

Price \$4.50



## Stone Jugs

1 gal....	\$0.25
2 gal....	.50
3 gal....	.75
5 gal....	1.25

Fig. 348

## Glass Jugs

1 gal., each,	
	\$0.20
Doz.,	\$1.75
Ask for gross	
prices.	

Fig. 349

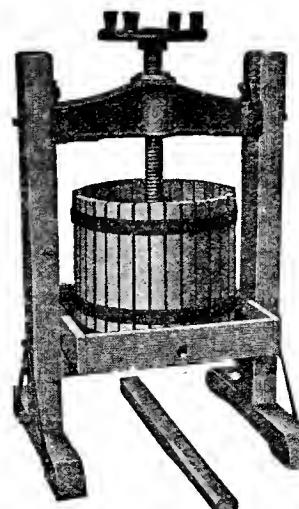


Fig. 344

## Worcester Fruit Presses

Worcester Fruit Presses like our Cider Mills are made to give entire satisfaction. We believe in quality. It means satisfied customers, more business. The frames are made of selected hardwood of good dimension, mortised and bolted solidly and with special wrought iron brace from frame to skid insuring a strong, rigid and durable frame. Equipped with extra heavy iron cross head rigidly bolted to frame. Press screws made of high grade cold rolled steel, with machine cut threads, smooth and easy of operation. Press lever is of good grade hardwood and beveled on one end for handle. Equipped with improved type hinged tub and serviceable press block and drain board.

	Tub Height	Diameter of Tub	Weight	Price
No. 4	10 1/2 inches	11 inches	60 lbs.	\$11.50
No. 5	12 1/4 inches	14 1/2 inches	90 lbs.	15.00
No. 6	13 1/4 inches	16 1/4 inches	160 lbs.	24.00

5% Discount for Cash

## Goodrich Multispray Outfit

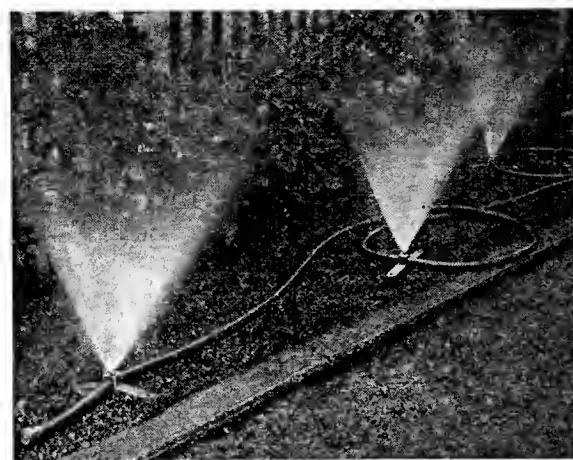


Fig. 347

This hose is the Goodrich 5/8" Maxecon hose. A wonderful outfit for sprinkling lawns. The spray heads are built into the hose, similar to a tire valve. Five sprays are provided in the 50 ft. lengths. A stamped metal support fits over the spray head and hose to keep it upright. A cap provides a shut-off on the male end. Price, 50 ft. complete unit, \$7.50.

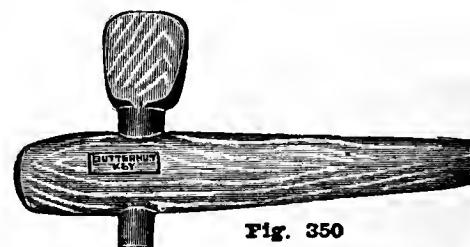


Fig. 350

## Butternut Key Faucets

8 inch. Price each, \$0.25; postpaid.....\$0.30

Prices in this catalogue are subject to change without notice.

## No. 10 Garden Hose Reel

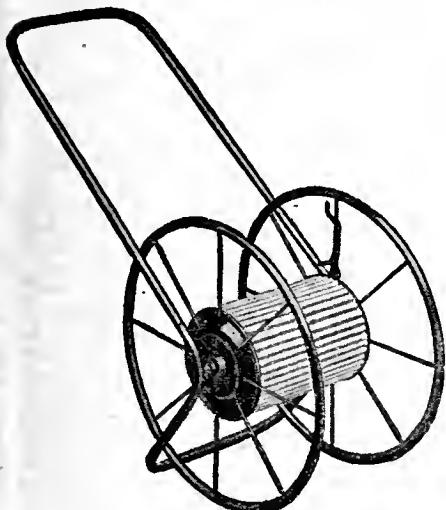


Fig. 351

Undoubtedly the best garden hose reel on the market. Absolutely all metal, tubular steel rims and frame; corrugated galvanized drum. Frame and reel enameled green. Capacity 100 feet of  $\frac{3}{4}$ -in. hose. Price, \$4.50.

## All Steel Hose Reel

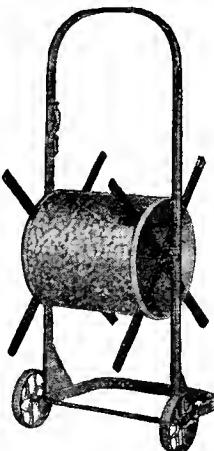


Fig. 351A

Well balanced, easy to operate, heavy gauge galvanized steel drum. Capacity 100 feet  $\frac{3}{8}$ -in. hose. Price, \$1.75.

## Detachable Hose Reel

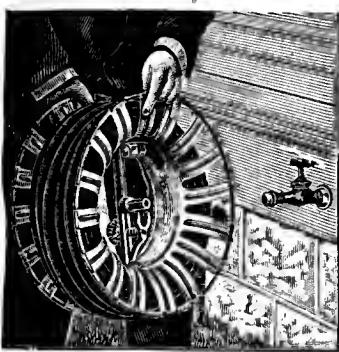


Fig. 353

packed in individual box, 11 pounds.

Price: Detachable Reel, including Faucet..... \$4.25

Add postage for your zone.

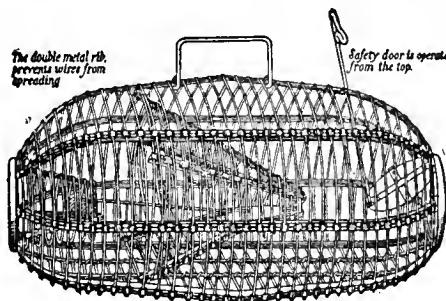
The "Detachable" Hose Reel is the most convenient and practical device of its kind ever invented. It is novel in its construction, yet it is a simple and sturdy article that makes the task of watering the lawn and garden a very agreeable one.

The hose is left permanently attached to the reel and is carried with it from place to place. Simply slips into faucet and is quickly clamped. The revolving joint is water tight.

The Detachable Hose Reel is 20 inches in diameter,  $8\frac{1}{2}$  in. wide, and easily holds 100 feet of  $\frac{3}{8}$  inch hose. Weight of reel, including faucet,

..... \$4.25

## Hold-Em Wire Rat and Mouse Traps



Made of steel wire. Has patent trigger attachment to catch the first rat, which is the hardest to get. The first one used as a decoy for others.

Rat Traps. Weight, 2 lbs..... Price, \$1.00  
Mouse Traps. Weight, 1 lb..... Price, .50

## Boston Pattern Swell Handle Ice Tongs



Every Tong Warranted

	Mailing Wt.	Price
16 $\frac{1}{2}$ inch	6 lbs.	\$2.25 pair
24 inch	8 lbs.	2.75 pair
26 inch	10 lbs.	2.75 pair

Fig. 354

## The Worcester Dairy Ice Plow

(Not Shown)

8-inch Plow with adjustable guide and case. Price: \$53.00.

## Ice Hooks

## Boston Pattern

(Not Shown)

	Each	Dozen
3 ft.	\$1.90	\$18.25
3 $\frac{1}{2}$ ft.	2.00	19.25
4 ft.	2.10	20.75
4 $\frac{1}{2}$ ft.	2.15	21.25
5 ft.	2.25	22.25
6 ft.	2.35	24.00
8 ft.	2.75	30.00

## Splitting Fork Ring Handle

2 tine	.....	\$8.50 Each
Splitting Chisel with Ring Handle	.....	4.50 Each
Caulking Bar, with Ring Handle	.....	4.75 Each

See inside of front cover.

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## Reference Table

# GARDEN SEEDS

	<b>Per Acre</b>		<b>Per Acre</b>
Artichoke, 1 oz. to 500 plants.....	½ pound		
Asparagus Seed, 1 oz. to 800 plants.....	4 "		
Asparagus Roots .....	2500 to 7000		
Beans, Dwarf, 1 pound to 100 ft. of drill.....	60 pounds		
Beans, Pole, 1 pound to 100 hills.....	30 "		
Beet, Garden, 1 oz. to 100 ft. of drill.....	6 to 8 "		
Beet, Sugar and Mangel, 1 oz. to 100 ft. of drill	5 "		
Broccoli, 1 oz. to 3000 plants.....	4 ozs.		
Brussels Sprouts, 1 oz. to 3000 plants.....	4 "		
Cabbage, 1 oz. to 3000 plants.....	4 "		
Carrot, 1 oz. to 150 feet of drill.....	2 ½ pounds		
Cauliflower, 1 oz. to 3000 plants.....	5 ozs.		
Celery, 1 oz. to 10,000 plants.....	4 "		
Celeriac, 1 oz. to 10,000 plants.....	4 "		
Chervil, 1 oz. to 8000 plants.....	4 "		
Chicory .....	4 pounds		
Collards, 1 oz. to 5000 plants.....			
Corn, Sweet, ¼ pound to 100 hills.....	12 "		
Cress, 1 oz. to 150 feet of drill .....	12 "		
Cucumber, 1 oz. to 50 hills.....	2 ½ "		
Dandelion, 1 oz. to 200 feet of drill.....	2 "		
Dill, 1 oz. to 200 feet of drill.....	5 "		
Egg-Plant, 1 oz. to 2000 plants.....	4 ozs.		
Endive, 1 oz. to 300 feet of drill.....	4 ½ pounds		
Kale, 1 oz. to 300 plants.....	4 ozs.		
Kohl Rabi, 1 oz. to 200 feet of drill.....			
Leek, 1 oz. to 200 feet of drill.....	4 "		
Lettuce, 1 oz. to 200 feet of drill.....	3 "		
Melon, Musk, 1 oz. to 100 hills.....	2 ½ "		
Melon, Water, 1 oz. to 25 hills.....	4 "		
Mustard, 1 oz. to 50 feet of drill.....			
Okra, 1 oz. to 50 feet of drill.....	8 "		
Onion Seed, 1 oz. to 200 feet of drill.....	4 to 5 "		
Onion Seed for sets.....		30 to 50	
Onion Sets, 2 pounds to 50 feet of drill.....	250 "		
Parsnip, 1 oz. to 200 feet of drill.....	4 "		
Parsley, 1 oz. to 200 feet of drill.....	4 "		
Peas, Garden, 1 pound to 100 foot drill.....	100 "		
Pepper, 1 oz. to 1500 plants.....		4 ozs.	
Potatoes .....		600 to 700	
Pumpkin, 1 oz. to 50 hills.....	3 "		
Radish, 1 oz. to 150 feet of drill.....	8 to 10 "		
Sage, 1 oz. to 100 feet of drill.....	5 "		
Salsify, 1 oz. to 60 foot row.....	8 "		
Spinach, 1 oz. to 100 feet of drill.....	12 "		
Squash, Summer, 1 oz. to 25 hills.....	4 "		
Squash, Winter, 1 oz. to 10 hills.....	2 "		
Tomato, 1 oz. to 2500 plants.....		3 ozs.	
Tobacco, 1 oz. to 5000 plants.....			
Turnip, 1 oz. to 200 feet of drill.....		1 ½ pounds	
Turnip, Ruta Baga, 1 oz. to 150 feet of drill..		1 "	

## GRAIN AND FORAGE CROPS

	Pounds per acre	Weight per bu.		Pounds per acre	Weight per bu.
Alfalfa . . . . .	15-25	60	Millet, Japanese . . . . .	15-25	35
Barley, for grain . . . . .	100	48	Oats for grain . . . . .	50-60	32
Barley, for forage . . . . .	140	48	Oats for forage . . . . .	100	32
Beans, Soy or Soja . . . . .	60-75	60	Peas, Field, Broadcast . . . . .	150-160	60
Buckwheat . . . . .	50-75	48	Peas with Oats . . . . .	90-100	60
Clover, Alsike . . . . .	6-8	60	Rye for grain . . . . .	60-75	56
Clover, Crimson . . . . .	18-20	60	Rye for forage . . . . .	80-100	56
Clover, Mammoth Red . . . . .	10-12	60	Rape, Dwarf Essex, in drills . . . . .	4-6	50
Clover, Medium Red . . . . .	10-12	60	Rape, Dwarf Essex, broadcast . . . . .	8-10	50
Clover, White Sweet . . . . .	20	60	Sudan Grass, in drills . . . . .	4-6	40
Corn, Flint for grain . . . . .	15	56	Sudan Grass, broadcast . . . . .	18-20	40
Corn, Dent for silage . . . . .	20-30	56	Vetch, Spring, with one bushel small grain . . . . .	40-60	60
Millet, Golden . . . . .	50	50	Vetch, Winter or Hairy, with one bushel small grain . . . . .	40-60	60
Millet, Hungarian . . . . .	50	48	Wheat . . . . .	90-120	60

## GRASS SEEDS

	Pounds per acre	Weight per bu.		Pounds per acre	Weight per bu.
Awnless Brome . . . . .	18-25	14	Rye Grass, English . . . . .	50	28
Blue Grass, Canada . . . . .	30-35	14	Rye Grass, Italian . . . . .	60	22
Blue Grass, Kentucky . . . . .	20-25	14	Rye Grass, Pacey's . . . . .	50	28
Creeping Bent . . . . .	50	14	Red Top, Recleaned seed, Worcester Brand	40-50	36
Crested Dogstail . . . . .	30	28	Red Top, Unhulled seed . . . . .	70	14
Fescue, Hard . . . . .	30	16	Rhode Island Bent . . . . .	20-40	14
Fescue, Meadow . . . . .	24	16	Rough Stalk Meadow . . . . .	30-35	26
Fescue, Red or Creeping . . . . .	30	16	Sweet Vernal, use only in mixture.		
Fescue, Sheep's . . . . .	40	16	Tall Meadow Oat . . . . .	45	12
Fescue, Various Leaved . . . . .	20-25	15	Timothy . . . . .	12-25	45
Meadow Foxtail . . . . .	30	8	Lawn Seed Mixture, Shady Spot . . . . .	100-125	20
Orchard Grass . . . . .	20-25	14	Lawn Seed Mixture, Worcester Brand . . . . .	100-125	25
			Wood Meadow . . . . .	25-30	19

## NUMBER OF PLANTS, TREES, ETC., REQUIRED TO SET AN ACRE

Distance	Number	Distance	Number
1 foot by 1 foot.....	43,560	6 feet by 6 feet.....	1,210
1½ feet by 1½ feet.....	19,360	8 " " 8 " .....	680
2 " 1 "	21,780	10 " 10 " .....	434
2 " 2 "	10,890	12 " 18 " .....	302
2½ " 2½ "	6,970	15 " 15 " .....	194
3 " 1 "	14,520	18 " 18 " .....	134
3 " 2 "	7,260	20 " 20 " .....	103
3 " 3 "	4,840	25 " 25 " .....	70
4 " 4 "	2,722	30 " 30 " .....	40
5 " 5 "	1,742	40 " 40 " .....	27



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# ROSS' Seeds For 1932

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ROSS BROS. CO., WORCESTER, MASS.  
COMMERCIAL AND FOSTER STREETS